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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)
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20. ABSTRACT (Continued)

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DATA BASE DEVELOPMENT FOR SHIP READINESS ANALYSES

November 1984

DATA BASE DEVELOPMENT FOR SHIP READINESS ANALYSES

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November 1984

The BDM Services Corporation and the
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The data base development reported here was done in preparation for studies sponsored by the Office of The Chief of Naval Operations (NOP-914)

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Files were constructed at the Defense Manpower Data Center (DMDC) for analyis of ship readiness. Navy enlisted personnel attached to the ships, in each observed ship class, were selected. Service-entry information was supplemented with updated quarterly data, for the quarters ending 7609 to 8303, resulting in individual longitudinal records. The Active Duty Military Master and Loss Edit provided the entry and quarterly information for each record.

Extractions from the 2754 position file were made for computational purposes. In addition, binary coding format was converted to character format on tapes sent to the Center for Naval Analysis (CNA) to meet computer system specifications. These files were used to examine personnel attributes in relation to ship readiness, but also provide excellent sources of data for a variety of applications.

FOREWORD

File extractions, concatenations and recoding procedures were done by Mr. William H. King of BDM Services, utilizing DMDC software (shown in the appendix). Ms. Barbara Cunningham of DMDC wrote the PL-1 program providing the ships' personnel requirements and fill-ratios. Dr. William E. McGarvey, of the Naval Postgraduate School, used the constructed "working file", for his statistical analyses.

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I. RECORD SELECTION

The Defense Manpower Data Center (DMDC) serves as a central facility within the Department of Defense for the collection and integration of personnel data. The DMDC Active Duty Military Master and Loss File, contains extracts of each individual's personnel file, and is updated on a quarterly basis with information received from the Navy Military Personnel Center (NMPC). This file of Navy enlisted personnel data was used as the initial database for this study, and was supplemented with data from the DMDC Active Duty Military Master and Loss File, described in Table 1.

The entire set of Navy enlisted personnel records was selected for all personnel attached to the ships in each of the observed classes, listed in Table 2. The Unit Identification Code (UIC) of each ship is unique and was used in selecting the personnel records for the analysis. These records contain both current information on each individual at the date of the record and information from that individual's record at time of entry to active duty. Personnel records were selected for each quarter from 30 September 1976 to 31 March 1983, a total of 27 time-periods.

II. FORMATION OF INDIVIDUAL LONGITUDINAL RECORDS

For any person attached to any of the given ships (UICs) during these periods, a longitudinal record was constructed

TABLE 1. ACTIVE DUTY MILITARY MASTER AND LOSS EDIT FILE FORMAT

Record length = 150
(The first 54 bytes were used to create the initial file.)

Column(s)	Description
1-4	Social Security Number
5-6	Total Active Federal Military Service
7-8	DoD Primary Occupation Group
9-10	DoD Duty Occupation Group
11	Highest Year of Education
12	AFQT Percentile (Enlisted)
13	Paygrade
14	Home of Record: State or County
15-17	Date of Birth (Year/Month/Day)
18	Service
19	Race
20	Source of Entry (Officer) *
21	Filler
22	Marital Status
23	Number of Dependents
24	File Date
25	Ethnic Group
26	Race Ethnic Affiliation
27	Sex
28	Education * Mental Category (Enl) Years of Commissioned Service (Off)
29-30	DoD Secondary Occupation Code
31	Mental Category (Enlisted)
32	Age at Entry
33	Age at Separation (Loss) Current Age (Master)
34-40	Primary MOS or Navy Officer Designator
41-43	Separation Program Designator (Loss)
44	Interservice Separation Code (Loss)
45-47	Date of Separation (Loss) or Soft Expiration Term of Service (Master) (Year/Month/Date)
48-50	Basic Active Service Date (Year/Month/Date)
51-52	Expiration Term of Service (Year/Month)
53-54	Date of Current Paygrade (Year/Month)
55-56	Date of Latest Enlistment (Enlisted)/ Date of Entry to Officer Ranks (Officer) (Year/Month)
57	Component
58	Year of Active Duty Service
59	Time in Grade

TABLE 1. ACTIVE DUTY MILITARY MASTER AND LOSS EDIT FILE FORMAT (CONTINUED)

Column(s)	Description
60	Character of Service (Enlisted-Loss)
61	Service Category (Officer)/VRBM (Enlisted)
62	Flying Status (Officer)/Propay (Enlisted)
63-64	Reenlistment Eligibility (Enlisted)/ Flight Pay Status (Officer) *
65-67	Pay Entry Base Date (Year/Month/Date)
68	Score Group (Enlisted) *
69-74	Unit Identification Code *
75	Spanish Surname Flag
76-77	Filler
78-84	Duty MOS/AQD (Naval Officer) *
85-90	Program Element Code *
91-95	Zip Code *
96-99	Name (First Four Positions)
100	Gain/Loss Code
101-105	Home of Record Zip Code *
106	Highest Year of Education
107	Marital/Dependents Status
108	Test Form
109	AFQT Percentile (Original MEPCOM)
110	Mental Category (Original MEPCOM)
111-126	Aptitude Area Scores *
127	Service
128	Prior Service
129	Waiver Code
130-132	Date of Entry (Year/Month/Date)
133	Term of Enlistment
134-138	Enlistment Option/Enlistment Program*
139	Bonus Option
140	Enlistment Option
141-145	Training MOS *
146	AFQT Percentile (Original Master)
147	Mental Category (Original Master)
148	Renorm Flag
149-150	Filler

Note: The (*) denotes that the data element is coded in character format, otherwise in binary format.

with updated information from positions five to fifty-four of the Master and Loss Edit. (See program entitled EXTRACT BDM in the appendix). Cross-sectional analysis is also feasible because quarterly information may be readily accessed.

Application of these extraction procedures resulted in the combination of several thousand personnel records. Presented below are the numbers of ships and personnel for the ship classes considered in the study.

TABLE 2. SHIP CLASSES AND NUMBER OF SHIPS AND PERSONNEL ANALYZED

SHIP CLASSES/TYPES	NUMBER OF SHIPS	NUMBER OF PERSONNEL
CG	23	32940
CGN	9	16049
DD963	30	22346
DDG2	24	30374
DDG37	10	14350
FF	59	56392
FFG	38	12612

Quarterly files were linked together by Social Security Number (SSN) for each individual serving on any of the given ships resulting in a 2754 byte record for each individual. Although an individual may have been attached to two or more ships during the 27 quarters, only a single record is constructed for that case. The current information on individual records

for each quarter is inserted in predetermined sections on the individual's records; should an individual not have been attached to one of the ships during that quarter, zeros were inserted as fillers in that section for that individual's record. (See program MATCHMAG BDM). The Match/Merge file format is shown in Table 3.

An illustration of the file merging process may clarify these conditions. The file from 30 September 1976 is matched with the file from 31 December 1976. All records from the first file are written to a transaction file and, where matches occur, the 30 September 1976 data are followed by the 31 December 1976 data. Should an individual active on a September 1976 ship not be attached to any of the ships in December 1976, then zeros are inserted in the "Quarter 2" section of that record.

If a another individual joined the cohort in, for example, December 1976, then zeros would be inserted in the "Quarter 1" section (where September 1976 data would have been placed) and the December 1976 file would be added to the end of the combined record. This combined data would then be matched against the "Quarter 3" (March 1977) file. All records from the combined data would then be written into a new file and any matches from the March 1977 file would be added to the end of this record. Should a match with the March 1977 file not be found (e.g., attrition from the cohort), then zeros would be inserted into that part of the new record. For instance, a new individual, joining in March 1977, would be added to the

TABLE 3. MATCH/MERGE FILE FORMAT

Record length = 2754

Column(s)	Description
1-4	Social Security Number
5-9	Home of Record Zip Code *
10	Highest Year of Education
11	Marital/Dependents Status
12	Test Form
13	AFQT Percentile (Original MEPCOM)
14	Mental Category (Original MEPCOM)
15-30	Aptitude Area Scores *
31	Service
32	Prior Service
33	Waiver Code
34-36	Date of Entry (Year/Month/Date)
37	Term of Enlistment
38-42	Enlistment Option/Enlistment Program*
43	Bonus Option
44	Enlistment Option
45-49	Training MOS *
50	AFQT Percentile (Original Master)
51	Mental Category (Original Master)
52	Renorm Flag
53-54	Filler

---record fields to which quarterly data are assigned---

55-154	Quarterly data for quarter ending 7609
155-254	" " " " " 7612
255-354	" " " " " 7703
355-454	" " " " " 7706
455-554	" " " " " 7709
555-654	" " " " " 7712
655-754	" " " " " 7803
755-854	" " " " " 7806
855-954	" " " " " 7809
955-1054	" " " " " 7812
1055-1154	" " " " " 7903
1155-1254	" " " " " 7906
1255-1354	" " " " " 7909
1355-1454	" " " " " 7912
1455-1554	" " " " " 8003
1555-1654	" " " " " 8006
1655-1754	" " " " " 8009
1755-1854	" " " " " 8012
1855-1954	" " " " " 8103
1955-2054	" " " " " 8106
2055-2154	" " " " " 8109

TABLE 3. MATCH/MERGE FILE FORMAT (CONTINUED)

Column(s)	Description
2155-2254	Quarterly data for quarter ending 8112
2255-2354	" " " " " 8203
2355-2454	" " " " " 8206
2455-2554	" " " " " 8209
2555-2654	" " " " " 8212
2655-2754	" " " " " 8303
	List of Data Elements Entered by Quarter (Example: Positions used for QTR 7609)
55-58	Social Security Number
59-60	Total Active Federal Military Service
61-62	DoD Primary Occupational Group
63-64	DoD Duty Occupational Group
65	Highest Year of Education
66	AFQT Percentile (Enlisted)
67	Paygrade
68	Home of Record: State or County
69-71	Date of Birth (Year/Month/Date)
72	Service
73	Race
74	Source of Entry (Officer) *
75	Filler
76	Marital Status
77	Number of Dependents
78	File Date
79	Ethnic Group
80	Race Ethnic
81	Sex
82	Education * Mental Category (ENL) Years of Commissioned Service (OFF)
83-84	DoD Secondary Occupational Code
85	Mental Category (Enlisted)
86	Age at Entry
87	Age at Separation (Loss)/Current Age (Master)
88-94	Primary MOS/Designator (Naval Officer)
95-97	Separation Program Designator (Loss)*
98	Interservice Separation Code (Loss)
99-101	Date of Separation (Loss)/Soft ETS Date (Master) (Year/Month/Date)
102-104	Basic Active Service Date (Year/Month/Date)
105-106	Expiration Term of Service Date (Year/Month)
107-108	Date of Current Paygrade (Year/Month)

TABLE 3. MATCH/MERGE FILE FORMAT (CONTINUED)

Column(s)	Description
109-110	Date of Latest Enlistment (Enlisted)/ Date of Entry to Officer Ranks (Officer) (Year/Month)
111	Component
112	Year of Active Duty Service
113	Time in Grade
114	Character of Service (Enlisted-Loss)
115	Service Category (Officer)/VRBM (Enlisted)
116	Flying Status (Officer)/Propay (Enlisted)
117-118	Reenlistment Eligibility (Enlisted)/ Flight Pay Status (Officer) *
119-121	Pay Entry Base Date (Year/Month/Date)
122	Score Group (Enlisted) *
123-128	Unit Identification Code *
129	Spanish Surname Flag
130-131	Filler
132-138	Duty MOS/AQD (Naval Officer) *
139-144	Program Element Code *
145-149	Zip Code *
150-153	Name (First Four Positions)
154	Gain/Loss Code

Note: Positions 55 to 2754 contain the 100 bytes of information shown in columns 55 to 154, which is updated and entered in sequence for each quarter. The (*) denotes that the data element is coded in character format, otherwise in binary format.

combined file by inserting zeros where September and December 1976 data would have been located and then the March data would be added at the end of the zeros. At another stage of file preparation, these "filler zeros" were recoded as missing data. The succeeding quarterly files were interatively matched and joined in this manner.

III. FILE EXTRACTIONS

The constructed record can be used to determine which personnel are attached to which, if any, of the given ships for any of the 27 quarters under consideration. Accession information, along with the Social Security Number obtained the first time each individual record is observed, were inserted at the beginning of the constructed record.

Because the concatenation yielded a relatively extended record length of 2754 bytes, two reduction measures were adopted to form a Working File depicted in Table 4. In the first stage, a 1400 byte record was extracted, containing accession information, e.g., ASVAB subscale scores, date of entry, marital status, and mental group category. Also included were quarterly updates such as Naval Enlistment Classification code (NEC), paygrade, years of active duty, and time in grade (See EXTRACT NPS). The second stage involved extraction of only those elements deemed necessary for the analysis. For each case, these variables included: (a) Armed Forces Qualifying Test (AFQT) score; (b) high-school degree status; (c) age at accession; (d) present

TABLE 4. WORKING FILE FORMAT

Column(s)	Description
1-4	Social Security Number
5	Filler
6	Highest Year of Education
7	Marital/Dependents Status
8	Test Form
9	AFQT Percentile (Original MEPCOM)
10	Mental Category (Original MEPCOM)
11-26	Aptitude Area Scores
27	Service
28	Prior Service
29	Waiver Code
30-32	Date of Entry (Year/Month/Date) *
33	Term of Enlistment
34-38	Enlistment Option/Enlistment Program*
39	Bonus Option
40	Enlistment Option
41-45	Training MOS
46	AFQT Percentile (Original Master)
47	Mental Category (Original Master)
48	Renorm Flag
49-50	Filler
---record fields to which quarterly data are assigned---	
51-100	Quarterly data for quarter ending 7609
101-150	" " " " " 7612
151-200	" " " " " 7703
201-250	" " " " " 7706
251-300	" " " " " 7709
310-350	" " " " " 7712
351-400	" " " " " 7803
401-450	" " " " " 7806
451-500	" " " " " 7809
501-550	" " " " " 7812
551-600	" " " " " 7903
601-650	" " " " " 7906
651-700	" " " " " 7909
701-750	" " " " " 7912
751-800	" " " " " 8003
801-850	" " " " " 8006
851-900	" " " " " 8009
901-950	" " " " " 8012
951-1000	" " " " " 8103
1001-1050	" " " " " 8106
1051-1100	" " " " " 8109
1101-1150	" " " " " 8112
1151-1200	" " " " " 8203

TABLE 4. WORKING FILE FORMAT (CONTINUED)

Column(s)	Description	
1201-1250	" " " " "	8206
1251-1300	" " " " "	8209
1301-1350	" " " " "	8212
1351-1400	" " " " "	8303

List of Data Elements Entered by Quarter
(Example: Positions used for QTR 7609)

51-52	Expiration Term of Service (Year/Month)
53	Highest Year of Education
54	AFQT Percentile
55	Paygrade
56-58	Date of Birth (Year/Month/Date)
59	Marital Status
60	Number of Dependents
61	Sex
62	Mental Category (Enlisted)
63	Age at Entry
64	Age at File Date
65-67	Rate *
68-71	Naval Enlistment Classification (NEC)*
72-74	Basic Active Service Date
75-76	Date Of Paygrade (Year/Month)
77-78	Date of Latest Enlistment (Year/Month)
79	Component
80	Year of Active Duty
81	Time in Grade
82	VRBM/SRBM
83	Propay
84	Score Group
85-87	Last three numbers of Unit Identification Code (UIC) *
88-90	Duty Rate *
91-94	Duty NEC *
95-100	Program Element Code *

Note: Positions 51 to 1400 contain the 50 bytes of information shwon in columns 51-100, which is updated and entered in sequence for each quarter. The (*) denotes that the data element is coded in character format, otherwise in binary format.

age; (e) paygrade; (f) years of active duty; (g) number of months in current paygrade; and (h) a logical condition (labelled "returner") indicating service in that rating aboard that ship in the prior quarter. Aggregation by rating on these variables was the next analytic stage. This file was made available to Dr. W.E. McGarvey at the Naval Postgraduate School, for his analysis.

IV. DATA AGGREGATION PROCEDURES

Utilizing Statistical Analysis System (SAS) software, aggregation was accomplished by:

1. selecting only those individuals who served in a given rating during at least one of the 27 quarters;
2. recoding "filler zeros" as missing data;
3. for each quarter, and for each ship with any active personnel aboard in that quarter, aggregating across individuals on the selected attributes associated with that rating (high-school degrees, "returners", AFQT scores, entry ages, present ages, paygrades, years of active duty, and months in current paygrades) and computing central tendency measures for that rating;
4. merging by ship and quarter the aggregated measures for each rating within ship and within quarter, and writing a new file; and
5. merging aggregated rating data for different ratings within each ship and quarter.

Thus, the aggregate characteristics of all ratings within a given ship (or ships) within a given quarter (or quarters) can be examined, and selected ratings may also be examined. Regression models were used to examine the collective data for a given department across several ships and certain ratings, across several ships, and across three classes of ships.

V. ADDITIONAL DATA BASE DEVELOPMENT

A second data base was generated which included, by rating, information about each of the ship's billets. Such billet data included: (a) number authorized; (b) number assigned; and (c) the fill-ratio. The fill-ratio was computed as the number of personnel on board divided by the number required. The number required for each ship, by department and rating, were provided by OPNAV-914 from the Ship Manning Document (SMD) files.

A third data base was composed of statistical summary reports provided by the Navy Ships Parts Control Center (SPCC), Mechanicsburg, Pa. The data included information provided by the individual units through the Consolidated Casualty Reporting System (CASREP).

The casualty reporting (CASREP) system provides a timely method for reporting equipment failures and the effect of these failures on the capability of the reporting units. The CASREP system is designed to assist in identifying problem equipment, supply support deficiencies, maintenance difficulties, etc., which tend to reduce the combat readiness of the Navy. Reported

by the individual ships, the CASREPs are compiled by SPCC.

Eight measures were extracted from these CASREP data, and three others were derived from them. The three data files were then merged into one file that contained for each quarter the personnel characteristics, fill-ratios and CASREP data for each ship.

The different files for each ship class were recorded (see program EXRECODE CNA) and forwarded to Center for Naval Analysis (CNA) for additional analysis. The recoding of binary to character data was necessary due to the differences in the two computer systems. The resulting file format is given in Table 5.

Additional tabulations provided information about personnel authorization and assignments for specific ratings by ship class and UIC. A PL-1 program (entitled BDM SHIPS in the appendix) was used for this analysis. Table 6 exemplifies the output produced for each quarter.

TABLE 5. CENTER FOR NAVAL ANALYSIS (CNA) FILE FORMAT

Column(s)	Description
1-9	Social Security Number
10-11	Highest Year of Education
12-13	Marital/Dependents Status
14-15	Test Form
16-17	AFQT (Original MEPCOM)
18	Mental Category (Original MEPCOM)
19-66	Aptitude Area Scores (expanded to three positions for each of the 16 areas)
67-68	Service
69-70	Prior Service
71-72	Waiver Code
73-78	Date of Entry (Year/Month/Date)
79-80	Term of Enlistment
81-85	Enlistment Option Program
86-87	Bonus Option
88-89	Enlistment Option
90-94	Training MOS
95-96	AGQT Percentile (Original Master)
97	Mental Category (Original Master)
98-100	Renorm Flag
101-104	Expiration Term of Serive Date (Year/Month)
105-106	Highest Year of Education
107-108	AFQT Percentile
109-110	Paygrade
111-116	Date of Birth (Year/Month/Date)
117-118	Marital Status
119-120	Dependents
121	Sex
122-123	AFQT Group
124-125	Age at Entry
126-127	Present Age
128-130	Rate
131-134	Naval Enlistment Classification (NEC)
135-140	Base Active Service Date (Year/Month/Date)
141-144	Date of Paygrade (Year/Month)
145-148	Date of Latest Enlistment (Year/Month)
149	Regular/Reserve
150-151	Year of Active Duty
152-153	Time in Grade
154-155	VRBM
156-157	Propay
158-159	Score Group
160-162	Last Three Number of Unit Identification Code (UIC)
163-165	Duty Rate
166-169	Duty NEC
170-175	Program Element Code

TABLE 5. CENTER FOR NAVAL ANALYSIS (CNA) FILE FORMAT (CONTINUED)

Column(s)	Description
	---record fields to which quarterly data are assigned---
101-175	Quarterly data for quarter ending 7609
176-250	" " " " " 7612
251-325	" " " " " 7703
326-400	" " " " " 7706
401-475	" " " " " 7709
476-550	" " " " " 7712
551-625	" " " " " 7803
626-700	" " " " " 7806
701-775	" " " " " 7809
776-850	" " " " " 7812
851-925	" " " " " 7903
926-1000	" " " " " 7906
1001-1075	" " " " " 7909
1076-1150	" " " " " 7912
1151-1225	" " " " " 8003
1226-1300	" " " " " 8006
1301-1375	" " " " " 8009
1376-1450	" " " " " 8012
1451-1525	" " " " " 8103
1526-1600	" " " " " 8106
1601-1675	" " " " " 8109
1676-1750	" " " " " 8112
1751-1825	" " " " " 8203
1826-1900	" " " " " 8206
1901-1975	" " " " " 8209
1976-2150	" " " " " 8212
2051-2125	" " " " " 8303

Note: All data elements are coded in character format. The quarterly information in positions 101 to 2125 is the same as that contained in positions 51 to 1400 in Table 4. The data elements shown in positions 101-175 are entered for each quarter (positions 101-175 are entered for the quarter ending 7609).

TABLE 6. AUTHORIZED AND ASSIGNED PERSONNEL BY UNIT IDENTIFICATION CODE (UIC), DATE AND RATING

SPRUANCE CLASS
QUARTER ENDING 7609

RATING	UIC-674			675			676			677			678			679		
	# Auth	# Assigned	% Manned	# Auth	# Assigned	% Manned	# Auth	# Assigned	% Manned	# Auth	# Assigned	% Manned	# Auth	# Assigned	% Manned	# Auth	# Assigned	% Manned
BT	35	27	77.1	35	27	77.1	35	30	85.7	35	26	74.3	31	31	100.0	35	36	102.9
DS	0	0	0.0	5	5	100.0	0	0	0.0	0	0	0.0	5	7	140.0	0	0	0.0
EM	10	8	80.0	9	7	77.8	9	10	111.1	9	10	111.1	9	8	88.9	9	11	122.2
EN	2	5	250.0	2	5	250.0	2	3	150.0	2	3	150.00	2	2	100.0	2	5	250.0
ET	10	2	20.0	10	1	10.0	10	2	20.0	10	1	10.0	11	1	9.1	10	2	20.0
FT	1	1	100.0	1	0	0.0	1	0	0.0	1	1	100.0	1	0	0.0	1	0	0.0
FTG	9	4	44.4	10	8	80.0	10	5	50.0	10	5	50.0	10	5	50.0	10	10	100.0
FTM	21	19	90.5	19	18	94.7	19	21	110.5	21	19	90.5	17	19	111.8	21	21	100.0
GMT	4	2	50.0	4	2	50.0	4	1	25.0	4	3	75.0	4	2	50.0	4	4	100.0
HT	9	13	144.4	8	13	162.5	8	15	187.5	8	11	137.5	8	15	187.5	8	12	150.0
IC	6	7	116.7	6	7	116.7	6	5	83.3	5	8	160.0	6	8	133.3	6	7	116.7
STG	14	7	50.0	12	12	100.0	13	11	84.6	13	13	100.0	12	12	100.0	13	9	69.2
TOTAL	121	95	78.5	121	105	86.8	117	103	88.0	118	100	84.7	116	110	94.8	119	117	98.3

TABLE 6. AUTHORIZED AND ASSIGNED PERSONNEL BY UNIT IDENTIFICATION CODE [UIC], DATE AND RATING (CONTINUED)

SPRUANCE CLASS
QUARTER ENDING 7609

RATING	UIC-680			681			682			683			684			685		
	# Auth	# Assigned	% Manned	# Auth	# Assigned	% Manned	# Auth	# Assigned	% Manned	# Auth	# Assigned	% Manned	# Auth	# Assigned	% Manned	# Auth	# Assigned	% Manned
BT	34	34	100.0	31	34	109.7	35	36	102.9	35	31	88.6	34	30	88.2	36	28	77.8
DS	0	0	0.0	6	6	100.0	0	0	0.0	0	0	0.0	0	0	0.0	5	0	0.0
EM	9	10	111.1	10	9	90.0	9	9	100.0	9	7	77.8	9	11	122.2	10	9	90.0
EN	2	3	150.0	2	5	250.0	2	5	250.0	2	2	100.0	2	3	150.0	2	4	200.0
ET	10	1	10.0	11	1	9.1	10	0	0.0	10	1	10.0	11	1	9.1	11	2	18.2
FT	1	1	100.0	1	1	100.0	1	0	0.0	1	1	100.0	1	1	100.0	1	1	100.0
FTG	9	5	55.6	10	8	80.0	10	6	60.0	10	6	60.0	10	5	50.0	8	7	87.5
FTM	21	17	81.0	16	13	81.2	21	20	95.2	21	21	100.0	21	17	81.0	17	19	111.8
GMT	4	2	50.0	8	2	25.0	4	3	75.0	4	1	25.0	4	2	50.0	4	2	50.0
HT	8	11	137.5	9	10	111.1	8	12	150.0	8	13	162.5	8	11	137.5	10	15	150.0
IC	6	6	100.0	6	7	116.7	6	6	100.0	6	6	100.0	6	6	100.0	6	7	116.7
STG	13	10	76.9	15	12	80.0	13	10	76.9	12	13	108.3	13	16	123.1	12	11	91.7
TOTAL	117	100	85.5	125	108	86.4	119	107	89.9	118	102	86.4	119	103	86.6	122	105	86.1

TABLE 6. AUTHORIZED AND ASSIGNED PERSONNEL BY UNIT IDENTIFICATION CODE (UIC), DATE AND RATING (CONTINUED)

SPRUANCE CLASS
QUARTER ENDING 7609

RATING	UIC-686			687			688			690			691			TOT		
	# Auth	# As-signed	% Manned	# Auth	# As-signed	% Manned	# Auth	# As-signed	% Manned	# Auth	# As-signed	% Manned	# Auth	# As-signed	% Manned	# Auth	# As-signed	% Manned
BT	35	36	102.9	31	31	100.0	35	35	100.0	35	25	71.4	35	31	88.6	783	701	89.5
DS	5	0	0.0	5	7	140.0	0	0	0.0	0	0	0.0	0	0	0.0	31	25	80.6
EM	10	9	90.0	9	10	111.1	9	9	100.0	7	9	128.6	9	12	133.3	210	216	102.9
EN	2	5	250.00	2	6	300.0	2	4	200.0	2	4	200.0	2	6	300.0	46	93	202.2
ET	11	1	9.1	11	1	9.1	10	1	10.0	10	1	10.0	10	0	0.0	238	25	10.5
FT	1	1	100.0	1	0	0.0	1	1	100.0	1	2	200.0	1	0	0.0	23	17	73.9
FTG	8	8	100.0	10	7	70.0	10	5	50.0	10	4	40.0	9	10	111.1	225	146	64.9
FTM	17	23	135.3	16	18	112.5	21	19	90.5	21	15	71.4	18	20	111.1	450	441	98.0
GMT	4	2	50.0	4	2	50.0	5	2	40.0	4	2	50.0	4	3	75.0	97	49	50.5
HT	10	14	140.0	8	14	175.0	8	13	162.5	8	13	162.5	8	13	162.5	192	289	150.5
IC	6	9	150.0	6	9	150.0	6	7	116.7	6	7	116.7	6	6	100.0	137	161	117.5
STG	12	14	116.7	12	9	75.0	13	9	69.2	13	7	53.8	13	9	69.2	298	253	84.9
TOTAL	121	122	100.8	115	114	99.1	120	105	87.5	117	89	76.1	115	110	95.7	2730	2416	88.5

APPENDIX: SOFTWARE AND PROGRAM DOCUMENTATION

EXTRACT BDM

14 NOV 1984 1:39 PM

```
//MWS#B303 JOB (3420,3F7333),KING,CLASS=K
//*MAIN ORG=RMT01,PROC=20,RINGCHK=NO
//*FORMAT PR,DDNAME=,DEST=RMT01
// EXEC MDACPROC,PROG=EXTRACT,SIZE=500K
//DATA DD UNIT=3400-5,DISP=(OLD,KEEP),
//   DSN=MASDD.EDITEN.P8303,VOL=SER=(K05976,K05977)
//OUTT DD UNIT=3330V,DISP=(NEW,CATLG,DELETE),
//   DCB=(LRECL=150,BLKSIZE=12900,RECFM=FB),
//   DSN=MRDC.WHKXXX.FF6.P8303,MSVGP=DMDC4D,
//   SPACE=(CYL,(4,2),RLSE)
//DECIN DD
18,1 = ' ' & (70,5 RANGE '04692' '04695' | 70,5 RANGE '04698' '04699' |
 70,5 RANGE '20964' '20969' | 70,5 RANGE '20972' '20979' |
 70,5 RANGE '21032' '21034' | 70,5 RANGE '21052' '21059' |
 70,5 RANGE '21103' '21110' | 70,5 RANGE '21197' '21201' |
 70,5 RANGE '21231' '21236' | 70,5 RANGE '21350' '21352' | 70,5='21028'
/*
//SYSIN DD *
EXTRACT='TRUE',LIST='NONE';
N='FILE'       P=1 W=150;
//
```

MATCHMRG BDM

```
//MWS#FFG  JOB (3420,3F7333),'KING',CLASS=F
//*MAIN ORG=RMT01,PROC=20,RINGCHK=NO
//*FORMAT PR,DDNAME=,DEST=RMT01
// EXEC MATCHMRG
//DWMTCH.SYSIN DD *
DCL N='M_SSN'     P=1  L=4   T=4;
DCL N='M_RECORD'  P=5  L=2650  T=6;
DCL N='MX_SSN'    P=1  L=4   T=4;
DCL N='MA_MASTER' P=1  L=100 T=6;
DCL N='MA_ASVAB'  P=101 L=50  T=6;
DCL N='P_SSN'     P=1  L=4   T=4;
DCL N='P_ASVAB'   P=5  L=50  T=6;
DCL N='P_ASVMAS'  P=5  L=2650  T=6;
DCL N='P_OLDREC'  P=55  L=2600  T=6;
DCL N='P_MASTER'          P=2655  L=100 T=6;
PARM IN='M,MA',OUT='P' SIZE='26:4,150,2754' KEY='SSN';
TOTAL NOM,NEW,MATCH;
ON (LT,NA) DO;
 M_SSN TO P_SSN;
 M_RECORD TO P_ASVMAS;
 LOW (100) TO P_MASTER;
 WRITE (P) FROM(P);
 NOM=1 TO NOM(0,4,4);
END;
ON (NA,LT) DO;
 MA_SSN TO P_SSN;
 MA_ASVAB TO P_ASVAB;
 LOW (2600) TO P_OLDREC;
 MA_MASTER TO P_MASTER;
 WRITE (P) FROM(P);
 NEW=1 TO NEW(0,4,4);
END;
ON (EQ,EQ) DO;
 M_SSN TO P_SSN;
 M_RECORD TO P_ASVMAS;
 MA_MASTER TO P_MASTER;
 WRITE (P) FROM(P);
 MATCH=1 TO MATCH(0,4,4);
END;
//PLI.SYSPRINT DD DUMMY
//GO.M DD UNIT=3400-5,DISP=(OLD,KEEP),
// DSN=FFG.C8212,VOL=SER=K07265
//GO.MA DD UNIT=3330V,DISP=SHR,
// DSN=MROC.WHKXXX.FFG.P8303
//GO.P DD UNIT=3400-5,DISP=(NEW,KEEP),
// DCB=(LRECL=2754,BLKSIZE=2754,RECFM=FB),
// DSN=FFG.C8303,VOL=SER=K01228
//
```

EXTRACT NPS

```
//MWS#D963 JOB (3420,3F7333),KING,CLASS=F
//*MAIN ORG=RMT01,PROC=20,RINGCHK=NO
//*FORMAT PR,DDNAME=,DEST=RMT01
// EXEC MDACPROC,PROG=EXTRACT,SIZE=1024K
//DATA DD UNIT=3400-5,DISP=OLD,DSN=DD963.C8403,VOL=SER=004877
//OUTT DD DISP=(NEW,KEEP),UNIT=3400-5,
//   DCB=(LRECL=2150,BLKSIZE=2150,RECFM=FB),
//   DSN=FIRST.EXTRACT,VOL=SER=K(5711
//DECIN DD *
1,1='1' | 1,1='1'
/*
//SYSIN DD *
EXTRACT='TRUE',LIST='NONE';
N='SSN'          P=1   W=4;
N='NA'           P=8   W=1;
N='ASVAB'        P=10  W=45
N='ETS'          P=105 W=2;
N='P11P13'       P=65  W=3;
N='DOB'          P=69  W=3;
N='MSDEPS'       P=76  W=2;
N='SEX'          P=81  W=1;
N='P31P40'       P=85  W=10;
N='BASD'         P=102 W=3;
N='P53P59'       P=107 W=7;
N='P61P62'       P=115 W=2;
N='UICMOS'       P=122 W=17;
N='ETS'          P=205 W=2;
N='P11P13'       P=165 W=3;
N='DOB'          P=169 W=3;
N='MSDEPS'       P=176 W=2;
N='SEX'          P=181 W=1;
N='P31P40'       P=185 W=10;
N='BASD'         P=202 W=3;
N='P53P59'       P=207 W=7;
N='P61P62'       P=215 W=2;
N='UICMOS'       P=222 W=17;
N='ETS'          P=305 W=2;
N='P11P13'       P=265 W=3;
N='DOB'          P=269 W=3;
N='MSDEPS'       P=276 W=2;
N='SEX'          P=281 W=1;
N='P31P40'       P=285 W=10;
N='BASD'         P=302 W=3;
N='P53P59'       P=307 W=7;
N='P61P62'       P=315 W=2;
N='UICMOS'       P=322 W=17;
N='ETS'          P=405 W=2;
N='P11P13'       P=365 W=3;
N='DOB'          P=369 W=3;
N='MSDEPS'       P=376 W=2;
N='SEX'          P=381 W=1;
N='P31P40'       P=385 W=10;
N='BASD'         P=402 W=3;
N='P53P59'       P=407 W=7;
N='P61P62'       P=415 W=2;
N='UICMOS'       P=422 W=17;
N='ETS'          P=505 W=2;
N='P11P13'       P=465 W=3;
N='DOB'          P=469 W=3;
N='MSDEPS'       P=476 W=2;
N='SEX'          P=481 W=1;
N='P31P40'       P=485 W=10;
N='BASD'         P=502 W=3;
N='P53P59'       P=507 W=7;
N='P61P62'       P=515 W=2;
N='UICMOS'       P=522 W=17;
N='ETS'          P=605 W=2;
N='P11P13'       P=565 W=3;
N='DOB'          P=569 W=3;
N='MSDEPS'       P=576 W=2;
N='SEX'          P=581 W=1;
N='P31P40'       P=585 W=10;
N='BASD'         P=602 W=3;
N='P53P59'       P=607 W=7;
N='P61P62'       P=615 W=2;
N='UICMOS'       P=622 W=17;
N='ETS'          P=705 W=2;
N='P11P13'       P=665 W=3;
```

```
N='DOB'          P=669  W=3;
N='MSDEPS'       P=676  W=2;
N='SEX'          P=681  W=1;
N='P31P40'       P=685  W=10;
N='BASD'         P=702  W=3;
N='P53P59'       P=707  W=7;
N='P61P62'       P=715  W=2;
N='UICMOS'       P=722  W=17;
N='ETS'          P=805  W=2;
N='P11P13'       P=765  W=3;
N='DOB'          P=769  W=3;
N='MSDEPS'       P=776  W=2;
N='SEX'          P=781  W=1;
N='P31P40'       P=785  W=10;
N='BASD'         P=802  W=3;
N='P53P59'       P=807  W=7;
N='P61P62'       P=815  W=2;
N='UICMOS'       P=822  W=17;
N='ETS'          P=905  W=2;
N='P11P13'       P=865  W=3;
N='DOB'          P=869  W=3;
N='MSDEPS'       P=876  W=2;
N='SEX'          P=881  W=1;
N='P31P40'       P=885  W=10;
N='BASD'         P=902  W=3;
N='P53P59'       P=907  W=7;
N='P61P62'       P=915  W=2;
N='UICMOS'       P=922  W=17;
N='ETS'          P=1005 W=2;
N='P11P13'       P=965  W=3;
N='DOB'          P=969  W=3;
N='MSDEPS'       P=976  W=2;
N='SEX'          P=981  W=1;
N='P31P40'       P=985  W=10;
N='BASD'         P=1002 W=3;
N='P53P59'       P=1007 W=7;
N='P61P62'       P=1015 W=2;
N='UICMOS'       P=1022 W=17;
N='ETS'          P=1105 W=2;
N='P11P13'       P=1065 W=3;
N='DOB'          P=1069 W=3;
N='MSDEPS'       P=1076 W=2;
N='SEX'          P=1081 W=1;
N='P31P40'       P=1085 W=10;
N='BASD'         P=1102 W=3;
N='P53P59'       P=1107 W=7;
N='P61P62'       P=1115 W=2;
N='UICMOS'       P=1122 W=17;
N='ETS'          P=1205 W=2;
N='P11P13'       P=1165 W=3;
N='DOB'          P=1169 W=3;
N='MSDEPS'       P=1176 W=2;
N='SEX'          P=1181 W=1;
N='P31P40'       P=1185 W=10;
N='BASD'         P=1202 W=3;
N='P53P59'       P=1207 W=7;
N='P61P62'       P=1215 W=2;
N='UICMOS'       P=1222 W=17;
N='REST'         P=1255 W=1500;
/*
// EXEC MDACPROC,PROG=EXTRACT,SIZE=1024K
//DATA DD UNIT=3400-5,DISP=OLD,DSN=FIRST.EXTRACT,VOL=SER=K05711
//OUTT DD DISP=(NEW,KEEP),UNIT=3400-5,
//   DCB=(LRECL=1650,BLKSIZE=16500,RECFM=FB),
//   DSN=SECOND.EXTRACT,VOL=SER=K05712
//DECIN DD *
1,1='1' | 1,1='1'
/*
//SYSIN DD *
EXTRACT='TRUE',LIST='NONE';
N='FIRST'        P=1    W=650;
N='ETS'          P=701  W=2;
N='P11P13'       P=661  W=3;
N='DOB'          P=665  W=3;
N='MSDEPS'       P=672  W=2;
N='SEX'          P=677  W=1;
N='P31P40'       P=681  W=10;
N='BASD'         P=698  W=3;
```

```
N='P53P59'      P=703   W=7;
N='P61P62'      P=711   W=2;
N='UICMOS'      P=718   W=17;
N='ETS'         P=801   W=2;
N='P11P13'      P=761   W=3;
N='DOB'         P=765   W=3;
N='MSDEPS'      P=772   W=2;
N='SEX'         P=777   W=1;
N='P31P40'      P=781   W=10;
N='BASD'        P=798   W=3;
N='P53P59'      P=803   W=7;
N='P61P62'      P=811   W=2;
N='UICMOS'      P=818   W=17;
N='ETS'         P=901   W=2;
N='P11P13'      P=861   W=3;
N='DOB'         P=865   W=3;
N='MSDEPS'      P=872   W=2;
N='SEX'         P=877   W=1;
N='P31P40'      P=881   W=10;
N='BASD'        P=898   W=3;
N='P53P59'      P=903   W=7;
N='P61P62'      P=911   W=2;
N='UICMOS'      P=918   W=17;
N='ETS'         P=1001  W=2;
N='P11P13'      P=961   W=3;
N='DOB'         P=965   W=3;
N='MSDEPS'      P=972   W=2;
N='SEX'         P=977   W=1;
N='P31P40'      P=981   W=10;
N='BASD'        P=998   W=3;
N='P53P59'      P=1003  W=7;
N='P61P62'      P=1011  W=2;
N='UICMOS'      P=1018  W=17;
N='ETS'         P=1101  W=2;
N='P11P13'      P=1061  W=3;
N='DOB'         P=1065  W=3;
N='MSDEPS'      P=1072  W=2;
N='SEX'         P=1077  W=1;
N='P31P40'      P=1081  W=10;
N='BASD'        P=1098  W=3;
N='P53P59'      P=1103  W=7;
N='P61P62'      P=1111  W=2;
N='UICMOS'      P=1118  W=17;
N='ETS'         P=1201  W=2;
N='P11P13'      P=1161  W=3;
N='DOB'         P=1165  W=3;
N='MSDEPS'      P=1172  W=2;
N='SEX'         P=1177  W=1;
N='P31P40'      P=1181  W=10;
N='BASD'        P=1198  W=3;
N='P53P59'      P=1203  W=7;
N='P61P62'      P=1211  W=2;
N='UICMOS'      P=1218  W=17;
N='ETS'         P=1301  W=2;
N='P11P13'      P=1261  W=3;
N='DOB'         P=1265  W=3;
N='MSDEPS'      P=1272  W=2;
N='SEX'         P=1277  W=1;
N='P31P40'      P=1281  W=10;
N='BASD'        P=1298  W=3;
N='P53P59'      P=1303  W=7;
N='P61P62'      P=1311  W=2;
N='UICMOS'      P=1318  W=17;
N='ETS'         P=1401  W=2;
N='P11P13'      P=1361  W=3;
N='DOB'         P=1365  W=3;
N='MSDEPS'      P=1372  W=2;
N='SEX'         P=1377  W=1;
N='P31P40'      P=1381  W=10;
N='BASD'        P=1398  W=3;
N='P53P59'      P=1403  W=7;
N='P61P62'      P=1411  W=2;
N='UICMOS'      P=1418  W=17;
N='ETS'         P=1501  W=2;
N='P11P13'      P=1461  W=3;
N='DOB'         P=1465  W=3;
N='MSDEPS'      P=1472  W=2;
N='SEX'         P=1477  W=1;
```

```
N='P31P40'      P=1481  W=10;
N='BASD'        P=1498  W=3;
N='P53P59'      P=1503  W=7;
N='P61P62'      P=1511  W=2;
N='UICMOS'      P=1518  W=17;
N='ETS'         P=1601  W=2;
N='P11P13'      P=1561  W=3;
N='DOB'         P=1565  W=3;
N='MSDEPS'      P=1572  W=2;
N='SEX'         P=1577  W=1;
N='P31P40'      P=1581  W=10;
N='BASD'        P=1598  W=3;
N='P53P59'      P=1603  W=7;
N='P61P62'      P=1611  W=2;
N='UICMOS'      P=1618  W=17;
N='REST'        P=1651  W=500;
/*
// EXEC MDACPROC,PROG=EXTRACT,SIZE=1024K
//DATA DD UNIT=3400-5,DISP=OLD,DSN=SECOND.EXTRACT,VOL=SER=K05712
//OUTT DD DISP=(NEW,KEEP),UNIT=3400-5,
//   DCB=(LRECL=1400,BLKSIZE=14000,RECFM=FB),
//   DSN=DD963.C8403,VOL=SER=K07656
//DECIN DD *
1,1='1' | 1,1='1'
/*
//SYSIN DD *
EXTRACT='TRUE',LIST='NONE';
N='SECOND'      P=1     W=1150;
N='ETS'         P=1201  W=2;
N='P11P13'      P=1161  W=3;
N='DOB'         P=1165  W=3;
N='MSDEPS'      P=1172  W=2;
N='SEX'         P=1177  W=1;
N='P31P40'      P=1181  W=10;
N='BASD'        P=1198  W=3;
N='P53P59'      P=1203  W=7;
N='P61P62'      P=1211  W=2;
N='UICMOS'      P=1218  W=17;
N='ETS'         P=1301  W=2;
N='P11P13'      P=1261  W=3;
N='DOB'         P=1265  W=3;
N='MSDEPS'      P=1272  W=2;
N='SEX'         P=1277  W=1;
N='P31P40'      P=1281  W=10;
N='BASD'        P=1298  W=3;
N='P53P59'      P=1303  W=7;
N='P61P62'      P=1311  W=2;
N='UICMOS'      P=1318  W=17;
N='ETS'         P=1401  W=2;
N='P11P13'      P=1361  W=3;
N='DOB'         P=1365  W=3;
N='MSDEPS'      P=1372  W=2;
N='SEX'         P=1377  W=1;
N='P31P40'      P=1381  W=10;
N='BASD'        P=1398  W=3;
N='P53P59'      P=1403  W=7;
N='P61P62'      P=1411  W=2;
N='UICMOS'      P=1418  W=17;
N='ETS'         P=1501  W=2;
N='P11P13'      P=1461  W=3;
N='DOB'         P=1465  W=3;
N='MSDEPS'      P=1472  W=2;
N='SEX'         P=1477  W=1;
N='P31P40'      P=1481  W=10;
N='BASD'        P=1498  W=3;
N='P53P59'      P=1503  W=7;
N='P61P62'      P=1511  W=2;
N='UICMOS'      P=1518  W=17;
N='ETS'         P=1601  W=2;
N='P11P13'      P=1561  W=3;
N='DOB'         P=1565  W=3;
N='MSDEPS'      P=1572  W=2;
N='SEX'         P=1577  W=1;
N='P31P40'      P=1581  W=10;
N='BASD'        P=1598  W=3;
N='P53P59'      P=1603  W=7;
N='P61P62'      P=1611  W=2;
N='UICMOS'      P=1618  W=17;
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EXRECODE CNA

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//MWS#CNA  JOB (3420,3F7333),'KING',CLASS=G
//*FORMAT PR,DDNAME=,DEST=RMT01
//*MAIN PROC=20,RINGCHK=NO,ORG=RMT01,LINES=20
//   EXEC EXRECODE,REGION=1024K
//DWEXTR.SYSIN DD *
 DCL   N='SSN'       P=1    L=4    T=4;
 DCL   N='HYEC'      P=5    L=1    T=2;
 DCL   N='MSDEPS'    P=7    L=1    T=2;
 DCL   N='TFORM'     P=8    L=1    T=2;
 DCL   N='AFQT'      P=9    L=1    T=2;
 DCL   N='MCAT'      P=10   L=1    T=2;
 DCL   N='TSCR1'     P=11   L=1    T=2;
 DCL   N='TSCR2'     P=12   L=1    T=2;
 DCL   N='TSCR3'     P=13   L=1    T=2;
 DCL   N='TSCR4'     P=14   L=1    T=2;
 DCL   N='TSCR5'     P=15   L=1    T=2;
 DCL   N='TSCR6'     P=16   L=1    T=2;
 DCL   N='TSCR7'     P=17   L=1    T=2;
 DCL   N='TSCR8'     P=18   L=1    T=2;
 DCL   N='TSCR9'     P=19   L=1    T=2;
 DCL   N='TSCR10'    P=20   L=1    T=2;
 DCL   N='TSCR11'    P=21   L=1    T=2;
 DCL   N='TSCR12'    P=22   L=1    T=2;
 DCL   N='TSCR13'    P=23   L=1    T=2;
 DCL   N='TSCR14'    P=24   L=1    T=2;
 DCL   N='TSCR15'    P=25   L=1    T=2;
 DCL   N='TSCR16'    P=26   L=1    T=2;
 DCL   N='SERVICE'   P=27   L=1    T=2;
 DCL   N='PRISVC'    P=28   L=1    T=2;
 DCL   N='WAIVER'    P=29   L=1    T=2;
 DCL   N='DOEY'      P=30   L=1    T=2;
 DCL   N='DOEM'      P=31   L=1    T=2;
 DCL   N='DOED'      P=32   L=1    T=2;
 DCL   N='TOENL'     P=33   L=1    T=2;
 DCL   N='ENLOPT'    P=34   L=5    T=6;
 DCL   N='BONUS'     P=39   L=1    T=2;
 DCL   N='OPTION'    P=40   L=1    T=2;
 DCL   N='TRAIN'     P=41   L=5    T=6;
 DCL   N='RAFQT'     P=46   L=1    T=2;
 DCL   N='RMNTCAT'   P=47   L=1    T=2;
 DCL   N='RENORMF'   P=48   L=1    T=2;
 DCL   N='ETSY01'     P=51    L=1    T=2;
 DCL   N='ETSM01'     P=52    L=1    T=2;
 DCL   N='HYEC01'     P=53    L=1    T=2;
 DCL   N='AFQT01'     P=54    L=1    T=2;
 DCL   N='PG01'       P=55    L=1    T=2;
 DCL   N='DOBY01'     P=56    L=1    T=2;
 DCL   N='DOBM01'     P=57    L=1    T=2;
 DCL   N='DOBD01'     P=58    L=1    T=2;
 DCL   N='MS01'       P=59    L=1    T=2;
 DCL   N='DEPS01'     P=60    L=1    T=2;
 DCL   N='SEX01'      P=61    L=1    T=2;
 DCL   N='AFQTG01'    P=62    L=1    T=2;
 DCL   N='EAGE01'     P=63    L=1    T=2;
 DCL   N='PAGE01'     P=64    L=1    T=2;
 DCL   N='RTNEC01'    P=65    L=7    T=6;
 DCL   N='BASDY01'    P=72    L=1    T=2;
 DCL   N='BASDM01'    P=73    L=1    T=2;
 DCL   N='BASDD01'    P=74    L=1    T=2;
 DCL   N='DOPGY01'    P=75    L=1    T=2;
 DCL   N='DOPGM01'    P=76    L=1    T=2;
 DCL   N='DOLEY01'    P=77    L=1    T=2;
 DCL   N='DOLEM01'    P=78    L=1    T=2;
 DCL   N='REGRS01'    P=79    L=1    T=2;
 DCL   N='YADTY01'    P=80    L=1    T=2;
 DCL   N='TIG01'      P=81    L=1    T=2;
 DCL   N='VRBM01'     P=82    L=1    T=2;
 DCL   N='PROPY01'    P=83    L=1    T=2;
 DCL   N='SCGRP01'    P=84    L=1    T=2;
 DCL   N='REST01'     P=85    L=16   T=6;
 DCL   N='ETSY02'     P=101    L=1    T=2;
 DCL   N='ETSM02'     P=102    L=1    T=2;
 DCL   N='HYEC02'     P=103    L=1    T=2;
 DCL   N='AFQT02'     P=104    L=1    T=2;
 DCL   N='PG02'       P=105    L=1    T=2;
 DCL   N='DOBY02'     P=106    L=1    T=2;
 DCL   N='DOBM02'     P=107    L=1    T=2;
 DCL   N='DOBD02'     P=108    L=1    T=2;
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EXECODE CNA

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DCL   N='MS02'      P=109   L=1    T=2;
DCL   N='DEPS02'    P=110   L=1    T=2;
DCL   N='SEX02'     P=111   L=1    T=2;
DCL   N='AFQTG02'   P=112   L=1    T=2;
DCL   N='EAGE02'    P=113   L=1    T=2;
DCL   N='PAGE02'    P=114   L=1    T=2;
DCL   N='RTNEC02'   P=115   L=7    T=6;
DCL   N='BASDY02'   P=122   L=1    T=2;
DCL   N='BASDM02'   P=123   L=1    T=2;
DCL   N='BASDD02'   P=124   L=1    T=2;
DCL   N='DOPGY02'   P=125   L=1    T=2;
DCL   N='DOPGM02'   P=126   L=1    T=2;
DCL   N='DOLEY02'   P=127   L=1    T=2;
DCL   N='DOLEM02'   P=128   L=1    T=2;
DCL   N='REGRS02'   P=129   L=1    T=2;
DCL   N='YADTY02'   P=130   L=1    T=2;
DCL   N='TIG02'     P=131   L=1    T=2;
DCL   N='VRBM02'    P=132   L=1    T=2;
DCL   N='PROPY02'   P=133   L=1    T=2;
DCL   N='SCGRP02'   P=134   L=1    T=2;
DCL   N='REST02'    P=135   L=16   T=6;
DCL   N='ETSY03'    P=151   L=1    T=2;
DCL   N='ETSM03'    P=152   L=1    T=2;
DCL   N='HYEC03'    P=153   L=1    T=2;
DCL   N='AFQT03'    P=154   L=1    T=2;
DCL   N='PG03'      P=155   L=1    T=2;
DCL   N='DOBY03'    P=156   L=1    T=2;
DCL   N='DOBM03'    P=157   L=1    T=2;
DCL   N='DOBD03'    P=158   L=1    T=2;
DCL   N='MS03'      P=159   L=1    T=2;
DCL   N='DEPS03'    P=160   L=1    T=2;
DCL   N='SEX03'     P=161   L=1    T=2;
DCL   N='AFQTG03'   P=162   L=1    T=2;
DCL   N='EAGE03'    P=163   L=1    T=2;
DCL   N='PAGE03'    P=164   L=1    T=2;
DCL   N='RTNEC03'   P=165   L=7    T=6;
DCL   N='BASDY03'   P=172   L=1    T=2;
DCL   N='BASDM03'   P=173   L=1    T=2;
DCL   N='BASDD03'   P=174   L=1    T=2;
DCL   N='DOPGY03'   P=175   L=1    T=2;
DCL   N='DOPGM03'   P=176   L=1    T=2;
DCL   N='DOLEY03'   P=177   L=1    T=2;
DCL   N='DOLEM03'   P=178   L=1    T=2;
DCL   N='REGRS03'   P=179   L=1    T=2;
DCL   N='YADTY03'   P=180   L=1    T=2;
DCL   N='TIG03'     P=181   L=1    T=2;
DCL   N='VRBM03'    P=182   L=1    T=2;
DCL   N='PROPY03'   P=183   L=1    T=2;
DCL   N='SCGRP03'   P=184   L=1    T=2;
DCL   N='REST03'    P=185   L=16   T=6;
DCL   N='ETSY04'    P=201   L=1    T=2;
DCL   N='ETSM04'    P=202   L=1    T=2;
DCL   N='HYEC04'    P=203   L=1    T=2;
DCL   N='AFQT04'    P=204   L=1    T=2;
DCL   N='PG04'      P=205   L=1    T=2;
DCL   N='DOBY04'    P=206   L=1    T=2;
DCL   N='DOBM04'    P=207   L=1    T=2;
DCL   N='DOBD04'    P=208   L=1    T=2;
DCL   N='MS04'      P=209   L=1    T=2;
DCL   N='DEPS04'    P=210   L=1    T=2;
DCL   N='SEX04'     P=211   L=1    T=2;
DCL   N='AFQTG04'   P=212   L=1    T=2;
DCL   N='EAGE04'    P=213   L=1    T=2;
DCL   N='PAGE04'    P=214   L=1    T=2;
DCL   N='RTNEC04'   P=215   L=7    T=6;
DCL   N='BASDY04'   P=222   L=1    T=2;
DCL   N='BASDM04'   P=223   L=1    T=2;
DCL   N='BASDD04'   P=224   L=1    T=2;
DCL   N='DOPGY04'   P=225   L=1    T=2;
DCL   N='DOPGM04'   P=226   L=1    T=2;
DCL   N='DOLEY04'   P=227   L=1    T=2;
DCL   N='DOLEM04'   P=228   L=1    T=2;
DCL   N='REGRS04'   P=229   L=1    T=2;
DCL   N='YADTY04'   P=230   L=1    T=2;
DCL   N='TIG04'     P=231   L=1    T=2;
DCL   N='VRBM04'    P=232   L=1    T=2;
DCL   N='PROPY04'   P=233   L=1    T=2;
DCL   N='SCGRP04'   P=234   L=1    T=2;
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DCL   N='REST04'    P=235   L=16   T=6;
DCL   N='ETSY05'    P=251   L=1    T=2;
DCL   N='ETSM05'    P=252   L=1    T=2;
DCL   N='HYEC05'    P=253   L=1    T=2;
DCL   N='AFQT05'    P=254   L=1    T=2;
DCL   N='PG05'      P=255   L=1    T=2;
DCL   N='DOBY05'    P=256   L=1    T=2;
DCL   N='DOBM05'    P=257   L=1    T=2;
DCL   N='DOBD05'    P=258   L=1    T=2;
DCL   N='MS05'      P=259   L=1    T=2;
DCL   N='DEPS05'    P=260   L=1    T=2;
DCL   N='SEX05'     P=261   L=1    T=2;
DCL   N='AFQTG05'   P=262   L=1    T=2;
DCL   N='EAGE05'    P=263   L=1    T=2;
DCL   N='PAGE05'    P=264   L=1    T=2;
DCL   N='RTNEC05'   P=265   L=7    T=6;
DCL   N='BASDY05'   P=272   L=1    T=2;
DCL   N='BASDM05'   P=273   L=1    T=2;
DCL   N='BASDD05'   P=274   L=1    T=2;
DCL   N='DOPGY05'   P=275   L=1    T=2;
DCL   N='DOPGM05'   P=276   L=1    T=2;
DCL   N='DOLEY05'   P=277   L=1    T=2;
DCL   N='DOLEM05'   P=278   L=1    T=2;
DCL   N='REGRS05'   P=279   L=1    T=2;
DCL   N='YADTY05'   P=280   L=1    T=2;
DCL   N='TIG05'     P=281   L=1    T=2;
DCL   N='VRBM05'    P=282   L=1    T=2;
DCL   N='PROPY05'   P=283   L=1    T=2;
DCL   N='SCGRP05'   P=284   L=1    T=2;
DCL   N='REST05'    P=285   L=16   T=6;
DCL   N='ETSY06'    P=301   L=1    T=2;
DCL   N='ETSM06'    P=302   L=1    T=2;
DCL   N='HYEC06'    P=303   L=1    T=2;
DCL   N='AFQT06'    P=304   L=1    T=2;
DCL   N='PG06'      P=305   L=1    T=2;
DCL   N='DOBY06'    P=306   L=1    T=2;
DCL   N='DOBM06'    P=307   L=1    T=2;
DCL   N='DOBD06'    P=308   L=1    T=2;
DCL   N='MS06'      P=309   L=1    T=2;
DCL   N='DEPS06'    P=310   L=1    T=2;
DCL   N='SEX06'     P=311   L=1    T=2;
DCL   N='AFQTG06'   P=312   L=1    T=2;
DCL   N='EAGE06'    P=313   L=1    T=2;
DCL   N='PAGE06'    P=314   L=1    T=2;
DCL   N='RTNEC06'   P=315   L=7    T=6;
DCL   N='BASDY06'   P=322   L=1    T=2;
DCL   N='BASDM06'   P=323   L=1    T=2;
DCL   N='BASDD06'   P=324   L=1    T=2;
DCL   N='DOPGY06'   P=325   L=1    T=2;
DCL   N='DOPGM06'   P=326   L=1    T=2;
DCL   N='DOLEY06'   P=327   L=1    T=2;
DCL   N='DOLEM06'   P=328   L=1    T=2;
DCL   N='REGRS06'   P=329   L=1    T=2;
DCL   N='YADTY06'   P=330   L=1    T=2;
DCL   N='TIG06'     P=331   L=1    T=2;
DCL   N='VRBM06'    P=332   L=1    T=2;
DCL   N='PROPY06'   P=333   L=1    T=2;
DCL   N='SCGRP06'   P=334   L=1    T=2;
DCL   N='REST06'    P=335   L=16   T=6;
DCL   N='ETSY07'    P=351   L=1    T=2;
DCL   N='ETSM07'    P=352   L=1    T=2;
DCL   N='HYEC07'    P=353   L=1    T=2;
DCL   N='AFQT07'    P=354   L=1    T=2;
DCL   N='PG07'      P=355   L=1    T=2;
DCL   N='DOBY07'    P=356   L=1    T=2;
DCL   N='DOBM07'    P=357   L=1    T=2;
DCL   N='DOBD07'    P=358   L=1    T=2;
DCL   N='MS07'      P=359   L=1    T=2;
DCL   N='DEPS07'    P=360   L=1    T=2;
DCL   N='SEX07'     P=361   L=1    T=2;
DCL   N='AFQTG07'   P=362   L=1    T=2;
DCL   N='EAGE07'    P=363   L=1    T=2;
DCL   N='PAGE07'    P=364   L=1    T=2;
DCL   N='RTNEC07'   P=365   L=7    T=6;
DCL   N='BASDY07'   P=372   L=1    T=2;
DCL   N='BASDM07'   P=373   L=1    T=2;
DCL   N='BASDD07'   P=374   L=1    T=2;
DCL   N='DOPGY07'   P=375   L=1    T=2;
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EXECODE CNA

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DCL   N='DOPGM07'   P=376   L=1    T=2;
DCL   N='DOLEY07'   P=377   L=1    T=2;
DCL   N='DOLEM07'   P=378   L=1    T=2;
DCL   N='REGRS07'   P=379   L=1    T=2;
DCL   N='YADTY07'   P=380   L=1    T=2;
DCL   N='TIG07'     P=381   L=1    T=2;
DCL   N='VRBM07'    P=382   L=1    T=2;
DCL   N='PROPY07'   P=383   L=1    T=2;
DCL   N='SCGRP07'   P=384   L=1    T=2;
DCL   N='REST07'    P=385   L=16   T=6;
DCL   N='ETSY08'    P=401   L=1    T=2;
DCL   N='ETSM08'    P=402   L=1    T=2;
DCL   N='HYEC08'    P=403   L=1    T=2;
DCL   N='AFQT08'    P=404   L=1    T=2;
DCL   N='PG08'      P=405   L=1    T=2;
DCL   N='D08Y08'    P=406   L=1    T=2;
DCL   N='D08M08'    P=407   L=1    T=2;
DCL   N='D08D08'    P=408   L=1    T=2;
DCL   N='MS08'      P=409   L=1    T=2;
DCL   N='DEPS08'    P=410   L=1    T=2;
DCL   N='SEX08'     P=411   L=1    T=2;
DCL   N='AFQTG08'   P=412   L=1    T=2;
DCL   N='EAGE08'    P=413   L=1    T=2;
DCL   N='PAGE08'    P=414   L=1    T=2;
DCL   N='RTNEC08'   P=415   L=7    T=6;
DCL   N='BASDY08'   P=422   L=1    T=2;
DCL   N='BASDM08'   P=423   L=1    T=2;
DCL   N='BASDD08'   P=424   L=1    T=2;
DCL   N='DOPGY08'   P=425   L=1    T=2;
DCL   N='DOPGM08'   P=426   L=1    T=2;
DCL   N='DOLEY08'   P=427   L=1    T=2;
DCL   N='DOLEM08'   P=428   L=1    T=2;
DCL   N='REGRS08'   P=429   L=1    T=2;
DCL   N='YADTY08'   P=430   L=1    T=2;
DCL   N='TIG08'     P=431   L=1    T=2;
DCL   N='VRBM08'    P=432   L=1    T=2;
DCL   N='PROPY08'   P=433   L=1    T=2;
DCL   N='SCGRP08'   P=434   L=1    T=2;
DCL   N='REST08'    P=435   L=16   T=6;
DCL   N='ETSY09'    P=451   L=1    T=2;
DCL   N='ETSM09'    P=452   L=1    T=2;
DCL   N='HYEC09'    P=453   L=1    T=2;
DCL   N='AFQT09'    P=454   L=1    T=2;
DCL   N='PG09'      P=455   L=1    T=2;
DCL   N='D08Y09'    P=456   L=1    T=2;
DCL   N='D08M09'    P=457   L=1    T=2;
DCL   N='D08D09'    P=458   L=1    T=2;
DCL   N='MS09'      P=459   L=1    T=2;
DCL   N='DEPS09'    P=460   L=1    T=2;
DCL   N='SEX09'     P=461   L=1    T=2;
DCL   N='AFQTG09'   P=462   L=1    T=2;
DCL   N='EAGE09'    P=463   L=1    T=2;
DCL   N='PAGE09'    P=464   L=1    T=2;
DCL   N='RTNEC09'   P=465   L=7    T=6;
DCL   N='BASDY09'   P=472   L=1    T=2;
DCL   N='BASDM09'   P=473   L=1    T=2;
DCL   N='BASDD09'   P=474   L=1    T=2;
DCL   N='DOPGY09'   P=475   L=1    T=2;
DCL   N='DOPGM09'   P=476   L=1    T=2;
DCL   N='DOLEY09'   P=477   L=1    T=2;
DCL   N='DOLEM09'   P=478   L=1    T=2;
DCL   N='REGRS09'   P=479   L=1    T=2;
DCL   N='YADTY09'   P=580   L=1    T=2;
DCL   N='TIG09'     P=581   L=1    T=2;
DCL   N='VRBM09'    P=582   L=1    T=2;
DCL   N='PROPY09'   P=583   L=1    T=2;
DCL   N='SCGRP09'   P=584   L=1    T=2;
DCL   N='REST09'    P=585   L=16   T=6;
DCL   N='ETSY10'    P=501   L=1    T=2;
DCL   N='ETSM10'    P=502   L=1    T=2;
DCL   N='HYEC10'    P=503   L=1    T=2;
DCL   N='AFQT10'    P=504   L=1    T=2;
DCL   N='PG10'      P=505   L=1    T=2;
DCL   N='D08Y10'    P=506   L=1    T=2;
DCL   N='D08M10'    P=507   L=1    T=2;
DCL   N='D08D10'    P=508   L=1    T=2;
DCL   N='MS10'      P=509   L=1    T=2;
DCL   N='DEPS10'    P=510   L=1    T=2;
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EXECODE CNA

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DCL   N='SEX10'     P=511    L=1    T=2;
DCL   N='AFQTG10'   P=512    L=1    T=2;
DCL   N='EAGE10'    P=513    L=1    T=2;
DCL   N='PAGE10'    P=514    L=1    T=2;
DCL   N='RTNEC10'   P=515    L=7    T=6;
DCL   N='BASDY10'   P=522    L=1    T=2;
DCL   N='BASDM10'   P=523    L=1    T=2;
DCL   N='BASDD10'   P=524    L=1    T=2;
DCL   N='DOPGY10'   P=525    L=1    T=2;
DCL   N='DOPGM10'   P=526    L=1    T=2;
DCL   N='DOLEY10'   P=527    L=1    T=2;
DCL   N='DOLEM10'   P=528    L=1    T=2;
DCL   N='REGRS10'   P=529    L=1    T=2;
DCL   N='YADTY10'   P=530    L=1    T=2;
DCL   N='TIG10'     P=531    L=1    T=2;
DCL   N='VRBM10'    P=532    L=1    T=2;
DCL   N='PROPY10'   P=533    L=1    T=2;
DCL   N='SCGRP10'   P=534    L=1    T=2;
DCL   N='REST10'    P=535    L=16   T=6;
DCL   N='ETSY11'    P=551    L=1    T=2;
DCL   N='ETSM11'    P=552    L=1    T=2;
DCL   N='HYEC11'    P=553    L=1    T=2;
DCL   N='AFQT11'    P=554    L=1    T=2;
DCL   N='PG11'      P=555    L=1    T=2;
DCL   N='DOBY11'    P=556    L=1    T=2;
DCL   N='DOBM11'    P=557    L=1    T=2;
DCL   N='DOBD11'    P=558    L=1    T=2;
DCL   N='MS11'      P=559    L=1    T=2;
DCL   N='DEPS11'    P=560    L=1    T=2;
DCL   N='SEX11'     P=561    L=1    T=2;
DCL   N='AFQTG11'   P=562    L=1    T=2;
DCL   N='EAGE11'    P=563    L=1    T=2;
DCL   N='PAGE11'    P=564    L=1    T=2;
DCL   N='RTNEC11'   P=565    L=7    T=6;
DCL   N='BASDY11'   P=572    L=1    T=2;
DCL   N='BASDM11'   P=573    L=1    T=2;
DCL   N='BASDD11'   P=574    L=1    T=2;
DCL   N='DOPGY11'   P=575    L=1    T=2;
DCL   N='DOPGM11'   P=576    L=1    T=2;
DCL   N='DOLEY11'   P=577    L=1    T=2;
DCL   N='DOLEM11'   P=578    L=1    T=2;
DCL   N='REGRS11'   P=579    L=1    T=2;
DCL   N='YADTY11'   P=580    L=1    T=2;
DCL   N='TIG11'     P=581    L=1    T=2;
DCL   N='VRBM11'    P=582    L=1    T=2;
DCL   N='PROPY11'   P=583    L=1    T=2;
DCL   N='SCGRP11'   P=584    L=1    T=2;
DCL   N='REST11'    P=585    L=16   T=6;
DCL   N='ETSY12'    P=601    L=1    T=2;
DCL   N='ETSM12'    P=602    L=1    T=2;
DCL   N='HYEC12'    P=603    L=1    T=2;
DCL   N='AFQT12'    P=604    L=1    T=2;
DCL   N='PG12'      P=605    L=1    T=2;
DCL   N='DOBY12'    P=606    L=1    T=2;
DCL   N='DOBM12'    P=607    L=1    T=2;
DCL   N='DOBD12'    P=608    L=1    T=2;
DCL   N='MS12'      P=609    L=1    T=2;
DCL   N='DEPS12'    P=610    L=1    T=2;
DCL   N='SEX12'     P=611    L=1    T=2;
DCL   N='AFQTG12'   P=612    L=1    T=2;
DCL   N='EAGE12'    P=613    L=1    T=2;
DCL   N='PAGE12'    P=614    L=1    T=2;
DCL   N='RTNEC12'   P=615    L=7    T=6;
DCL   N='BASDY12'   P=622    L=1    T=2;
DCL   N='BASDM12'   P=623    L=1    T=2;
DCL   N='BASDD12'   P=624    L=1    T=2;
DCL   N='DOPGY12'   P=625    L=1    T=2;
DCL   N='DOPGM12'   P=626    L=1    T=2;
DCL   N='DOLEY12'   P=627    L=1    T=2;
DCL   N='DOLEM12'   P=628    L=1    T=2;
DCL   N='REGRS12'   P=629    L=1    T=2;
DCL   N='YADTY12'   P=630    L=1    T=2;
DCL   N='TIG12'     P=631    L=1    T=2;
DCL   N='VRBM12'    P=632    L=1    T=2;
DCL   N='PROPY12'   P=633    L=1    T=2;
DCL   N='SCGRP12'   P=634    L=1    T=2;
DCL   N='REST12'    P=635    L=16   T=6;
DCL   N='ETSY13'    P=651    L=1    T=2;
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DCL   N='ETSM13'    P=652    L=1    T=2;
DCL   N='HYEC13'    P=653    L=1    T=2;
DCL   N='AFQT13'    P=654    L=1    T=2;
DCL   N='PG13'      P=655    L=1    T=2;
DCL   N='DOBY13'    P=656    L=1    T=2;
DCL   N='DOBM13'    P=657    L=1    T=2;
DCL   N='DOBD13'    P=658    L=1    T=2;
DCL   N='MS13'      P=659    L=1    T=2;
DCL   N='DEPS13'    P=660    L=1    T=2;
DCL   N='SEX13'     P=661    L=1    T=2;
DCL   N='AFQTG13'   P=662    L=1    T=2;
DCL   N='EAGE13'    P=663    L=1    T=2;
DCL   N='PAGE13'    P=664    L=1    T=2;
DCL   N='RTNEC13'   P=665    L=7    T=6;
DCL   N='BASDY13'   P=672    L=1    T=2;
DCL   N='BASDM13'   P=673    L=1    T=2;
DCL   N='BASDD13'   P=674    L=1    T=2;
DCL   N='DOPGY13'   P=675    L=1    T=2;
DCL   N='DOPGM13'   P=676    L=1    T=2;
DCL   N='DOLEY13'   P=677    L=1    T=2;
DCL   N='DOLEM13'   P=678    L=1    T=2;
DCL   N='REGRS13'   P=679    L=1    T=2;
DCL   N='YADTY13'   P=680    L=1    T=2;
DCL   N='TIG13'     P=681    L=1    T=2;
DCL   N='VRBM13'    P=682    L=1    T=2;
DCL   N='PROPY13'   P=683    L=1    T=2;
DCL   N='SCGRP13'   P=684    L=1    T=2;
DCL   N='REST13'    P=685    L=16   T=6;
DCL   N='ETSY14'    P=701    L=1    T=2;
DCL   N='ETSM14'    P=702    L=1    T=2;
DCL   N='HYEC14'    P=703    L=1    T=2;
DCL   N='AFQT14'    P=704    L=1    T=2;
DCL   N='PG14'      P=705    L=1    T=2;
DCL   N='DOBY14'    P=706    L=1    T=2;
DCL   N='DOBM14'    P=707    L=1    T=2;
DCL   N='DOBD14'    P=708    L=1    T=2;
DCL   N='MS14'      P=709    L=1    T=2;
DCL   N='DEPS14'    P=710    L=1    T=2;
DCL   N='SEX14'     P=711    L=1    T=2;
DCL   N='AFQTG14'   P=712    L=1    T=2;
DCL   N='EAGE14'    P=713    L=1    T=2;
DCL   N='PAGE14'    P=714    L=1    T=2;
DCL   N='RTNEC14'   P=715    L=7    T=6;
DCL   N='BASDY14'   P=722    L=1    T=2;
DCL   N='BASDM14'   P=723    L=1    T=2;
DCL   N='BASDD14'   P=724    L=1    T=2;
DCL   N='DOPGY14'   P=725    L=1    T=2;
DCL   N='DOPGM14'   P=726    L=1    T=2;
DCL   N='DOLEY14'   P=727    L=1    T=2;
DCL   N='DOLEM14'   P=728    L=1    T=2;
DCL   N='REGRS14'   P=729    L=1    T=2;
DCL   N='YADTY14'   P=730    L=1    T=2;
DCL   N='TIG14'     P=731    L=1    T=2;
DCL   N='VRBM14'    P=732    L=1    T=2;
DCL   N='PROPY14'   P=733    L=1    T=2;
DCL   N='SCGRP14'   P=734    L=1    T=2;
DCL   N='REST14'    P=735    L=16   T=6;
DCL   N='ETSY15'    P=751    L=1    T=2;
DCL   N='ETSM15'    P=752    L=1    T=2;
DCL   N='HYEC15'    P=753    L=1    T=2;
DCL   N='AFQT15'    P=754    L=1    T=2;
DCL   N='PG15'      P=755    L=1    T=2;
DCL   N='DOBY15'    P=756    L=1    T=2;
DCL   N='DOBM15'    P=757    L=1    T=2;
DCL   N='DOBD15'    P=758    L=1    T=2;
DCL   N='MS15'      P=759    L=1    T=2;
DCL   N='DEPS15'    P=760    L=1    T=2;
DCL   N='SEX15'     P=761    L=1    T=2;
DCL   N='AFQTG15'   P=762    L=1    T=2;
DCL   N='EAGE15'    P=763    L=1    T=2;
DCL   N='PAGE15'    P=764    L=1    T=2;
DCL   N='RTNEC15'   P=765    L=7    T=6;
DCL   N='BASDY15'   P=772    L=1    T=2;
DCL   N='BASDM15'   P=773    L=1    T=2;
DCL   N='BASDD15'   P=774    L=1    T=2;
DCL   N='DOPGY15'   P=775    L=1    T=2;
DCL   N='DOPGM15'   P=776    L=1    T=2;
DCL   N='DOLEY15'   P=777    L=1    T=2;
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DCL   N='DOLEM15'   P=778   L=1    T=2;
DCL   N='REGRS15'   P=779   L=1    T=2;
DCL   N='YADTY15'   P=780   L=1    T=2;
DCL   N='TIG15'     P=781   L=1    T=2;
DCL   N='VRBM15'    P=782   L=1    T=2;
DCL   N='PROPY15'   P=783   L=1    T=2;
DCL   N='SCGRP15'   P=784   L=1    T=2;
DCL   N='REST15'    P=785   L=16   T=6;
DCL   N='ETSY16'    P=801   L=1    T=2;
DCL   N='ETSM16'    P=802   L=1    T=2;
DCL   N='HYEC16'    P=803   L=1    T=2;
DCL   N='AFQT16'    P=804   L=1    T=2;
DCL   N='PG16'      P=805   L=1    T=2;
DCL   N='DOBY16'    P=806   L=1    T=2;
DCL   N='DOBM16'    P=807   L=1    T=2;
DCL   N='DOBD16'    P=808   L=1    T=2;
DCL   N='MS16'      P=809   L=1    T=2;
DCL   N='DEPS16'    P=810   L=1    T=2;
DCL   N='SEX16'     P=811   L=1    T=2;
DCL   N='AFQTG16'   P=812   L=1    T=2;
DCL   N='EAGE16'    P=813   L=1    T=2;
DCL   N='PAGE16'    P=814   L=1    T=2;
DCL   N='RTNEC16'   P=815   L=7    T=6;
DCL   N='BASDY16'   P=822   L=1    T=2;
DCL   N='BASDM16'   P=823   L=1    T=2;
DCL   N='BASDD16'   P=824   L=1    T=2;
DCL   N='DOPGY16'   P=825   L=1    T=2;
DCL   N='DOPGM16'   P=826   L=1    T=2;
DCL   N='DOLEY16'   P=827   L=1    T=2;
DCL   N='DOLEM16'   P=828   L=1    T=2;
DCL   N='REGRS16'   P=829   L=1    T=2;
DCL   N='YADTY16'   P=830   L=1    T=2;
DCL   N='TIG16'     P=831   L=1    T=2;
DCL   N='VRBM16'    P=832   L=1    T=2;
DCL   N='PROPY16'   P=833   L=1    T=2;
DCL   N='SCGRP16'   P=834   L=1    T=2;
DCL   N='REST16'    P=835   L=16   T=6;
DCL   N='ETSY17'    P=851   L=1    T=2;
DCL   N='ETSM17'    P=852   L=1    T=2;
DCL   N='HYEC17'    P=853   L=1    T=2;
DCL   N='AFQT17'    P=854   L=1    T=2;
DCL   N='PG17'      P=855   L=1    T=2;
DCL   N='DOBY17'    P=856   L=1    T=2;
DCL   N='DOBM17'    P=857   L=1    T=2;
DCL   N='DOBD17'    P=858   L=1    T=2;
DCL   N='MS17'      P=859   L=1    T=2;
DCL   N='DEPS17'    P=860   L=1    T=2;
DCL   N='SEX17'     P=861   L=1    T=2;
DCL   N='AFQTG17'   P=862   L=1    T=2;
DCL   N='EAGE17'    P=863   L=1    T=2;
DCL   N='PAGE17'    P=864   L=1    T=2;
DCL   N='RTNEC17'   P=865   L=7    T=6;
DCL   N='BASDY17'   P=872   L=1    T=2;
DCL   N='BASDM17'   P=873   L=1    T=2;
DCL   N='BASDD17'   P=874   L=1    T=2;
DCL   N='DOPGY17'   P=875   L=1    T=2;
DCL   N='DOPGM17'   P=876   L=1    T=2;
DCL   N='DOLEY17'   P=877   L=1    T=2;
DCL   N='DOLEM17'   P=878   L=1    T=2;
DCL   N='REGRS17'   P=879   L=1    T=2;
DCL   N='YADTY17'   P=880   L=1    T=2;
DCL   N='TIG17'     P=881   L=1    T=2;
DCL   N='VRBM17'    P=882   L=1    T=2;
DCL   N='PROPY17'   P=883   L=1    T=2;
DCL   N='SCGRP17'   P=884   L=1    T=2;
DCL   N='REST17'    P=885   L=16   T=6;
DCL   N='ETSY18'    P=901   L=1    T=2;
DCL   N='ETSM18'    P=902   L=1    T=2;
DCL   N='HYEC18'    P=903   L=1    T=2;
DCL   N='AFQT18'    P=904   L=1    T=2;
DCL   N='PG18'      P=905   L=1    T=2;
DCL   N='DOBY18'    P=906   L=1    T=2;
DCL   N='DOBM18'    P=907   L=1    T=2;
DCL   N='DOBD18'    P=908   L=1    T=2;
DCL   N='MS18'      P=909   L=1    T=2;
DCL   N='DEPS18'    P=910   L=1    T=2;
DCL   N='SEX18'     P=911   L=1    T=2;
DCL   N='AFQTG18'   P=912   L=1    T=2;
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DCL   N='EAGE18'    P=913    L=1    T=2;
DCL   N='PAGE18'    P=914    L=1    T=2;
DCL   N='RTNEC18'   P=915    L=7    T=6;
DCL   N='BASOY18'   P=922    L=1    T=2;
DCL   N='BASOM18'   P=923    L=1    T=2;
DCL   N='BASOD18'   P=924    L=1    T=2;
DCL   N='DOPGY18'   P=925    L=1    T=2;
DCL   N='DOPGM18'   P=926    L=1    T=2;
DCL   N='DOLEY18'   P=927    L=1    T=2;
DCL   N='DOLEM18'   P=928    L=1    T=2;
DCL   N='REGRS18'   P=929    L=1    T=2;
DCL   N='YADTY18'   P=930    L=1    T=2;
DCL   N='TIG18'     P=931    L=1    T=2;
DCL   N='VRBM18'    P=932    L=1    T=2;
DCL   N='PROPY18'   P=933    L=1    T=2;
DCL   N='SCGRP18'   P=934    L=1    T=2;
DCL   N='REST18'    P=935    L=16   T=6;
DCL   N='ETSY19'    P=951    L=1    T=2;
DCL   N='ETSM19'    P=952    L=1    T=2;
DCL   N='HYEC19'    P=953    L=1    T=2;
DCL   N='AFQT19'    P=954    L=1    T=2;
DCL   N='PG19'      P=955    L=1    T=2;
DCL   N='DOBY19'    P=956    L=1    T=2;
DCL   N='DOBM19'    P=957    L=1    T=2;
DCL   N='DOBD19'    P=958    L=1    T=2;
DCL   N='MS19'      P=959    L=1    T=2;
DCL   N='DEPS19'    P=960    L=1    T=2;
DCL   N='SEX19'     P=961    L=1    T=2;
DCL   N='AFQTG19'   P=962    L=1    T=2;
DCL   N='EAGE19'    P=963    L=1    T=2;
DCL   N='PAGE19'    P=964    L=1    T=2;
DCL   N='RTNEC19'   P=965    L=7    T=6;
DCL   N='BASOY19'   P=972    L=1    T=2;
DCL   N='BASOM19'   P=973    L=1    T=2;
DCL   N='BASOD19'   P=974    L=1    T=2;
DCL   N='DOPGY19'   P=975    L=1    T=2;
DCL   N='DOPGM19'   P=976    L=1    T=2;
DCL   N='DOLEY19'   P=977    L=1    T=2;
DCL   N='DOLEM19'   P=978    L=1    T=2;
DCL   N='REGRS19'   P=979    L=1    T=2;
DCL   N='YADTY19'   P=980    L=1    T=2;
DCL   N='TIG19'     P=981    L=1    T=2;
DCL   N='VRBM19'    P=982    L=1    T=2;
DCL   N='PROPY19'   P=983    L=1    T=2;
DCL   N='SCGRP19'   P=984    L=1    T=2;
DCL   N='REST19'    P=985    L=16   T=6;
DCL   N='ETSY20'    P=1001   L=1    T=2;
DCL   N='ETSM20'    P=1002   L=1    T=2;
DCL   N='HYEC20'    P=1003   L=1    T=2;
DCL   N='AFQT20'    P=1004   L=1    T=2;
DCL   N='PG20'      P=1005   L=1    T=2;
DCL   N='DOBY20'    P=1006   L=1    T=2;
DCL   N='DOBM20'    P=1007   L=1    T=2;
DCL   N='DOBD20'    P=1008   L=1    T=2;
DCL   N='MS20'      P=1009   L=1    T=2;
DCL   N='DEPS20'    P=1010   L=1    T=2;
DCL   N='SEX20'     P=1011   L=1    T=2;
DCL   N='AFQTG20'   P=1012   L=1    T=2;
DCL   N='EAGE20'    P=1013   L=1    T=2;
DCL   N='PAGE20'    P=1014   L=1    T=2;
DCL   N='RTNEC20'   P=1015   L=7    T=6;
DCL   N='BASOY20'   P=1022   L=1    T=2;
DCL   N='BASOM20'   P=1023   L=1    T=2;
DCL   N='BASOD20'   P=1024   L=1    T=2;
DCL   N='DOPGY20'   P=1025   L=1    T=2;
DCL   N='DOPGM20'   P=1026   L=1    T=2;
DCL   N='DOLEY20'   P=1027   L=1    T=2;
DCL   N='DOLEM20'   P=1028   L=1    T=2;
DCL   N='REGRS20'   P=1029   L=1    T=2;
DCL   N='YADTY20'   P=1030   L=1    T=2;
DCL   N='TIG20'     P=1031   L=1    T=2;
DCL   N='VRBM20'    P=1032   L=1    T=2;
DCL   N='PROPY20'   P=1033   L=1    T=2;
DCL   N='SCGRP20'   P=1034   L=1    T=2;
DCL   N='REST20'    P=1035   L=16   T=6;
DCL   N='ETSY21'    P=1051   L=1    T=2;
DCL   N='ETSM21'    P=1052   L=1    T=2;
DCL   N='HYEC21'    P=1053   L=1    T=2;
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DCL   N='AFQT21'    P=1054    L=1    T=2;
DCL   N='PG21'      P=1055    L=1    T=2;
DCL   N='DOBY21'    P=1056    L=1    T=2;
DCL   N='DOBM21'    P=1057    L=1    T=2;
DCL   N='DOBD21'    P=1058    L=1    T=2;
DCL   N='MS21'      P=1059    L=1    T=2;
DCL   N='DEPS21'    P=1060    L=1    T=2;
DCL   N='SEX21'     P=1061    L=1    T=2;
DCL   N='AFQTG21'   P=1062    L=1    T=2;
DCL   N='EAGE21'    P=1063    L=1    T=2;
DCL   N='PAGE21'    P=1064    L=1    T=2;
DCL   N='RTNEC21'   P=1065    L=7    T=6;
DCL   N='BASDY21'   P=1072    L=1    T=2;
DCL   N='BASDM21'   P=1073    L=1    T=2;
DCL   N='BASDD21'   P=1074    L=1    T=2;
DCL   N='DOPGY21'   P=1075    L=1    T=2;
DCL   N='DOPGM21'   P=1076    L=1    T=2;
DCL   N='DOLEY21'   P=1077    L=1    T=2;
DCL   N='DOLEM21'   P=1078    L=1    T=2;
DCL   N='REGRS21'   P=1079    L=1    T=2;
DCL   N='YADTY21'   P=1080    L=1    T=2;
DCL   N='TIG21'     P=1081    L=1    T=2;
DCL   N='VRBM21'    P=1082    L=1    T=2;
DCL   N='PROPY21'   P=1083    L=1    T=2;
DCL   N='SCGRP21'   P=1084    L=1    T=2;
DCL   N='REST21'    P=1085    L=1 E  T=6;
DCL   N='ETSY22'    P=1101    L=1    T=2;
DCL   N='ETSM22'    P=1102    L=1    T=2;
DCL   N='HYEC22'    P=1103    L=1    T=2;
DCL   N='AFQT22'    P=1104    L=1    T=2;
DCL   N='PG22'      P=1105    L=1    T=2;
DCL   N='DOBY22'    P=1106    L=1    T=2;
DCL   N='DOBM22'    P=1107    L=1    T=2;
DCL   N='DOBD22'    P=1108    L=1    T=2;
DCL   N='MS22'      P=1109    L=1    T=2;
DCL   N='DEPS22'    P=1110    L=1    T=2;
DCL   N='SEX22'     P=1111    L=1    T=2;
DCL   N='AFQTG22'   P=1112    L=1    T=2;
DCL   N='EAGE22'    P=1113    L=1    T=2;
DCL   N='PAGE22'    P=1114    L=1    T=2;
DCL   N='RTNEC22'   P=1115    L=7    T=6;
DCL   N='BASDY22'   P=1122    L=1    T=2;
DCL   N='BASDM22'   P=1123    L=1    T=2;
DCL   N='BASDD22'   P=1124    L=1    T=2;
DCL   N='DOPGY22'   P=1125    L=1    T=2;
DCL   N='DOPGM22'   P=1126    L=1    T=2;
DCL   N='DOLEY22'   P=1127    L=1    T=2;
DCL   N='DOLEM22'   P=1128    L=1    T=2;
DCL   N='REGRS22'   P=1129    L=1    T=2;
DCL   N='YADTY22'   P=1130    L=1    T=2;
DCL   N='TIG22'     P=1131    L=1    T=2;
DCL   N='VRBM22'    P=1132    L=1    T=2;
DCL   N='PROPY22'   P=1133    L=1    T=2;
DCL   N='SCGRP22'   P=1134    L=1    T=2;
DCL   N='REST22'    P=1135    L=1 E  T=6;
DCL   N='ETSY23'    P=1151    L=1    T=2;
DCL   N='ETSM23'    P=1152    L=1    T=2;
DCL   N='HYEC23'    P=1153    L=1    T=2;
DCL   N='AFQT23'    P=1154    L=1    T=2;
DCL   N='PG23'      P=1155    L=1    T=2;
DCL   N='DOBY23'    P=1156    L=1    T=2;
DCL   N='DOBM23'    P=1157    L=1    T=2;
DCL   N='DOBD23'    P=1158    L=1    T=2;
DCL   N='MS23'      P=1159    L=1    T=2;
DCL   N='DEPS23'    P=1160    L=1    T=2;
DCL   N='SEX23'     P=1161    L=1    T=2;
DCL   N='AFQTG23'   P=1162    L=1    T=2;
DCL   N='EAGE23'    P=1163    L=1    T=2;
DCL   N='PAGE23'    P=1164    L=1    T=2;
DCL   N='RTNEC23'   P=1165    L=7    T=6;
DCL   N='BASDY23'   P=1172    L=1    T=2;
DCL   N='BASDM23'   P=1173    L=1    T=2;
DCL   N='BASDD23'   P=1174    L=1    T=2;
DCL   N='DOPGY23'   P=1175    L=1    T=2;
DCL   N='DOPGM23'   P=1176    L=1    T=2;
DCL   N='DOLEY23'   P=1177    L=1    T=2;
DCL   N='DOLEM23'   P=1178    L=1    T=2;
DCL   N='REGRS23'   P=1179    L=1    T=2;
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```
DCL   N='YADTY23'   P=1180   L=1    T=2;
DCL   N='TIG23'     P=1181   L=1    T=2;
DCL   N='VRBM23'    P=1182   L=1    T=2;
DCL   N='PROPY23'   P=1183   L=1    T=2;
DCL   N='SCGRP23'   P=1184   L=1    T=2;
DCL   N='REST23'    P=1185   L=1 E  T=6;
DCL   N='ETSY24'    P=1201   L=1    T=2;
DCL   N='ETSM24'    P=1202   L=1    T=2;
DCL   N='HYEC24'    P=1203   L=1    T=2;
DCL   N='AFQT24'    P=1204   L=1    T=2;
DCL   N='PG24'      P=1205   L=1    T=2;
DCL   N='DOBY24'    P=1206   L=1    T=2;
DCL   N='DOBM24'    P=1207   L=1    T=2;
DCL   N='DOBD24'    P=1208   L=1    T=2;
DCL   N='MS24'      P=1209   L=1    T=2;
DCL   N='DEPS24'    P=1210   L=1    T=2;
DCL   N='SEX24'     P=1211   L=1    T=2;
DCL   N='AFQTG24'   P=1212   L=1    T=2;
DCL   N='EAGE24'    P=1213   L=1    T=2;
DCL   N='PAGE24'    P=1214   L=1    T=2;
DCL   N='RTNEC24'   P=1215   L=7    T=6;
DCL   N='BASDY24'   P=1222   L=1    T=2;
DCL   N='BASDM24'   P=1223   L=1    T=2;
DCL   N='BASDD24'   P=1224   L=1    T=2;
DCL   N='DOPGY24'   P=1225   L=1    T=2;
DCL   N='DOPGM24'   P=1226   L=1    T=2;
DCL   N='DOLEY24'   P=1227   L=1    T=2;
DCL   N='DOLEM24'   P=1228   L=1    T=2;
DCL   N='REGRS24'   P=1229   L=1    T=2;
DCL   N='YADTY24'   P=1230   L=1    T=2;
DCL   N='TIG24'     P=1231   L=1    T=2;
DCL   N='VRBM24'    P=1232   L=1    T=2;
DCL   N='PROPY24'   P=1233   L=1    T=2;
DCL   N='SCGRP24'   P=1234   L=1    T=2;
DCL   N='REST24'    P=1235   L=1 E  T=6;
DCL   N='ETSY25'    P=1251   L=1    T=2;
DCL   N='ETSM25'    P=1252   L=1    T=2;
DCL   N='HYEC25'    P=1253   L=1    T=2;
DCL   N='AFQT25'    P=1254   L=1    T=2;
DCL   N='PG25'      P=1255   L=1    T=2;
DCL   N='DOBY25'    P=1256   L=1    T=2;
DCL   N='DOBM25'    P=1257   L=1    T=2;
DCL   N='DOBD25'    P=1258   L=1    T=2;
DCL   N='MS25'      P=1259   L=1    T=2;
DCL   N='DEPS25'    P=1260   L=1    T=2;
DCL   N='SEX25'     P=1261   L=1    T=2;
DCL   N='AFQTG25'   P=1262   L=1    T=2;
DCL   N='EAGE25'    P=1263   L=1    T=2;
DCL   N='PAGE25'    P=1264   L=1    T=2;
DCL   N='RTNEC25'   P=1265   L=7    T=6;
DCL   N='BASDY25'   P=1272   L=1    T=2;
DCL   N='BASDM25'   P=1273   L=1    T=2;
DCL   N='BASDD25'   P=1274   L=1    T=2;
DCL   N='DOPGY25'   P=1275   L=1    T=2;
DCL   N='DOPGM25'   P=1276   L=1    T=2;
DCL   N='DOLEY25'   P=1277   L=1    T=2;
DCL   N='DOLEM25'   P=1278   L=1    T=2;
DCL   N='REGRS25'   P=1279   L=1    T=2;
DCL   N='YADTY25'   P=1280   L=1    T=2;
DCL   N='TIG25'     P=1281   L=1    T=2;
DCL   N='VRBM25'    P=1282   L=1    T=2;
DCL   N='PROPY25'   P=1283   L=1    T=2;
DCL   N='SCGRP25'   P=1284   L=1    T=2;
DCL   N='REST25'    P=1285   L=1 E  T=6;
DCL   N='ETSY26'    P=1301   L=1    T=2;
DCL   N='ETSM26'    P=1302   L=1    T=2;
DCL   N='HYEC26'    P=1303   L=1    T=2;
DCL   N='AFQT26'    P=1304   L=1    T=2;
DCL   N='PG26'      P=1305   L=1    T=2;
DCL   N='DOBY26'    P=1306   L=1    T=2;
DCL   N='DOBM26'    P=1307   L=1    T=2;
DCL   N='DOBD26'    P=1308   L=1    T=2;
DCL   N='MS26'      P=1309   L=1    T=2;
DCL   N='DEPS26'    P=1310   L=1    T=2;
DCL   N='SEX26'     P=1311   L=1    T=2;
DCL   N='AFQTG26'   P=1312   L=1    T=2;
DCL   N='EAGE26'    P=1313   L=1    T=2;
DCL   N='PAGE26'    P=1314   L=1    T=2;
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EXRECODE CNA

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DCL   N='RTNEC26'   P=1315    L=7    T=6;
DCL   N='BASDY26'   P=1322    L=1    T=2;
DCL   N='BASDM26'   P=1323    L=1    T=2;
DCL   N='BASDD26'   P=1324    L=1    T=2;
DCL   N='DOPGY26'   P=1325    L=1    T=2;
DCL   N='DOPGM26'   P=1326    L=1    T=2;
DCL   N='DOLEY26'   P=1327    L=1    T=2;
DCL   N='DOLEM26'   P=1328    L=1    T=2;
DCL   N='REGRS26'   P=1329    L=1    T=2;
DCL   N='YADTY26'   P=1330    L=1    T=2;
DCL   N='TIG26'     P=1331    L=1    T=2;
DCL   N='VRBM26'    P=1332    L=1    T=2;
DCL   N='PROPY26'   P=1333    L=1    T=2;
DCL   N='SCGRP26'   P=1334    L=1    T=2;
DCL   N='REST26'    P=1335    L=1    T=6;
DCL   N='ETSY27'    P=1351    L=1    T=2;
DCL   N='ETSM27'    P=1352    L=1    T=2;
DCL   N='MYEC27'    P=1353    L=1    T=2;
DCL   N='AFQT27'    P=1354    L=1    T=2;
DCL   N='PG27'      P=1355    L=1    T=2;
DCL   N='DOBY27'    P=1356    L=1    T=2;
DCL   N='DOBM27'    P=1357    L=1    T=2;
DCL   N='DOBD27'    P=1358    L=1    T=2;
DCL   N='MS27'      P=1359    L=1    T=2;
DCL   N='DEPS27'    P=1360    L=1    T=2;
DCL   N='SEX27'     P=1361    L=1    T=2;
DCL   N='AFQTG27'   P=1362    L=1    T=2;
DCL   N='EAGE27'    P=1363    L=1    T=2;
DCL   N='PAGE27'    P=1364    L=1    T=2;
DCL   N='RTNEC27'   P=1365    L=7    T=6;
DCL   N='BASDY27'   P=1372    L=1    T=2;
DCL   N='BASDM27'   P=1373    L=1    T=2;
DCL   N='BASDD27'   P=1374    L=1    T=2;
DCL   N='DOPGY27'   P=1375    L=1    T=2;
DCL   N='DOPGM27'   P=1376    L=1    T=2;
DCL   N='DOLEY27'   P=1377    L=1    T=2;
DCL   N='DOLEM27'   P=1378    L=1    T=2;
DCL   N='REGRS27'   P=1379    L=1    T=2;
DCL   N='YADTY27'   P=1380    L=1    T=2;
DCL   N='TIG27'     P=1381    L=1    T=2;
DCL   N='VRBM27'    P=1382    L=1    T=2;
DCL   N='PROPY27'   P=1383    L=1    T=2;
DCL   N='SCGRP27'   P=1384    L=1    T=2;
DCL   N='REST27'    P=1385    L=1    T=6;
PARM  LRECL1=1400,  LRECL2=2125;
SSN       TO R(0001,9,7,,'999999999');
MYEC      TO R(0010,2,7,,'99');
MSDEPS    TO R(0012,2,7,,'99');
TFORM     TO R(0014,2,7,,'99');
AFQT      TO R(0016,2,7,,'99');
MCAT      TO R(0018,1,7,,'9');
TSCR1     TO R(0019,3,7,,'999');
TSCR2     TO R(0022,3,7,,'999');
TSCR3     TO R(0025,3,7,,'999');
TSCR4     TO R(0028,3,7,,'999');
TSCR5     TO R(0031,3,7,,'999');
TSCR6     TO R(0034,3,7,,'999');
TSCR7     TO R(0037,3,7,,'999');
TSCR8     TO R(0040,3,7,,'999');
TSCR9     TO R(0043,3,7,,'999');
TSCR10    TO R(0046,3,7,,'999');
TSCR11    TO R(0049,3,7,,'999');
TSCR12    TO R(0052,3,7,,'999');
TSCR13    TO R(0055,3,7,,'999');
TSCR14    TO R(0058,3,7,,'999');
TSCR15    TO R(0061,3,7,,'999');
TSCR16    TO R(0064,3,7,,'999');
SERVICE   TO R(0067,2,7,,'99');
PRISVC    TO R(0069,2,7,,'99');
WAIVER    TO R(0071,2,7,,'99');
DOEY      TO R(0073,2,7,,'99');
DOEM      TO R(0075,2,7,,'99');
DOED      TO R(0077,2,7,,'99');
TOENL     TO R(0079,2,7,,'99');
ENLOPT    TO R(0081,5,6);
BONUS     TO R(0086,2,7,,'99');
OPTION    TO R(0088,2,7,,'99');
TRAIN     TO R(0090,5,6);
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EXECODE CNA

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RAFQT    TO R(0095,2,7,,'99');
RMNTCAT  TO R(0097,2,7,,'99');
RENORMF  TO R(0098,3,7,,'999');
ETSY01   TO R(0101,2,7,,'99');
ETSM01   TO R(0103,2,7,,'99');
HYEC01   TO R(0105,2,7,,'99');
AFQT01   TO R(0107,2,7,,'99');
PG01     TO R(0109,2,7,,'99');
DOBY01   TO R(0111,2,7,,'99');
DOBM01   TO R(0113,2,7,,'99');
DOBD01   TO R(0115,2,7,,'99');
MS01     TO R(0117,2,7,,'99');
DEPS01   TO R(0119,2,7,,'99');
SEX01    TO R(0121,1,7,,'9');
AFQTG01  TO R(0122,2,7,,'99');
EAGE01   TO R(0124,2,7,,'99');
PAGE01   TO R(0126,2,7,,'99');
RTNEC01  TO R(0128,7,6);
BASDY01  TO R(0135,2,7,,'99');
BASDM01  TO R(0137,2,7,,'99');
BASDD01  TO R(0139,2,7,,'99');
DOPGY01  TO R(0141,2,7,,'99');
DOPGM01  TO R(0143,2,7,,'99');
DOLEY01  TO R(0145,2,7,,'99');
DOLEM01  TO R(0147,2,7,,'99');
REGRS01  TO R(0149,1,7,,'9');
YADTY01  TO R(0150,2,7,,'99');
TIG01    TO R(0152,2,7,,'99');
VRBM01   TO R(0154,2,7,,'99');
PROPY01  TO R(0156,2,7,,'99');
SCGRP01  TO R(0158,2,7,,'99');
REST01    TO R(0160,16,6);
ETSY02   TO R(0176,2,7,,'99');
ETSM02   TO R(0178,2,7,,'99');
HYEC02   TO R(0180,2,7,,'99');
AFQT02   TO R(0182,2,7,,'99');
PG02     TO R(0184,2,7,,'99');
DOBY02   TO R(0186,2,7,,'99');
DOBM02   TO R(0188,2,7,,'99');
DOBD02   TO R(0190,2,7,,'99');
MS02     TO R(0192,2,7,,'99');
DEPS02   TO R(0194,2,7,,'99');
SEX02    TO R(0196,1,7,,'9');
AFQTG02  TO R(0197,2,7,,'99');
EAGE02   TO R(0199,2,7,,'99');
PAGE02   TO R(0201,2,7,,'99');
RTNEC02  TO R(0203,7,6);
BASDY02  TO R(0210,2,7,,'99');
BASDM02  TO R(0212,2,7,,'99');
BASDD02  TO R(0214,2,7,,'99');
DOPGY02  TO R(0216,2,7,,'99');
DOPGM02  TO R(0218,2,7,,'99');
DOLEY02  TO R(0220,2,7,,'99');
DOLEM02  TO R(0222,2,7,,'99');
REGRS02  TO R(0224,1,7,,'9');
YADTY02  TO R(0225,2,7,,'99');
TIG02    TO R(0227,2,7,,'99');
VRBM02   TO R(0229,2,7,,'99');
PROPY02  TO R(0231,2,7,,'99');
SCGRP02  TO R(0233,2,7,,'99');
REST02    TO R(0235,16,6);
ETSY03   TO R(0251,2,7,,'99');
ETSM03   TO R(0253,2,7,,'99');
HYEC03   TO R(0255,2,7,,'99');
AFQT03   TO R(0257,2,7,,'99');
PG03     TO R(0259,2,7,,'99');
DOBY03   TO R(0261,2,7,,'99');
DOBM03   TO R(0263,2,7,,'99');
DOBD03   TO R(0265,2,7,,'99');
MS03     TO R(0267,2,7,,'99');
DEPS03   TO R(0269,2,7,,'99');
SEX03    TO R(0271,1,7,,'9');
AFQTG03  TO R(0272,2,7,,'99');
EAGE03   TO R(0274,2,7,,'99');
PAGE03   TO R(0276,2,7,,'99');
RTNEC03  TO R(0278,7,6);
BASDY03  TO R(0285,2,7,,'99');
BASDM03  TO R(0287,2,7,,'99');
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EXFECODE CNA

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BASDD03  TO R(0289,2,7,,'99');
DOPGY03  TO R(0291,2,7,,'99');
DOPGM03  TO R(0293,2,7,,'99');
DOLEY03  TO R(0295,2,7,,'99');
DOLEM03  TO R(0297,2,7,,'99');
REGRS03  TO R(0299,1,7,,'9');
YADTY03  TO R(0300,2,7,,'99');
TIG03    TO R(0302,2,7,,'99');
VRBM03   TO R(0304,2,7,,'99');
PROPY03  TO R(0306,2,7,,'99');
SCGRP03  TO R(0308,2,7,,'99');
REST03    TO R(0310,16,6);
ETSY04   TO R(0326,2,7,,'99');
ETSM04   TO R(0328,2,7,,'99');
HYEC04   TO R(0330,2,7,,'99');
AFQT04   TO R(0332,2,7,,'99');
PG04     TO R(0334,2,7,,'99');
DOBY04   TO R(0336,2,7,,'99');
DOBM04   TO R(0338,2,7,,'99');
DOBD04   TO R(0340,2,7,,'99');
MS04     TO R(0342,2,7,,'99');
DEPS04   TO R(0344,2,7,,'99');
SEX04    TO R(0346,1,7,,'9');
AFQTG04  TO R(0347,2,7,,'99');
EAGE04   TO R(0349,2,7,,'99');
PAGE04   TO R(0351,2,7,,'99');
RTNEC04  TO R(0353,7,6);
BASDY04  TO R(0360,2,7,,'99');
BASDM04  TO R(0362,2,7,,'99');
BASDD04  TO R(0364,2,7,,'99');
DOPGY04  TO R(0366,2,7,,'99');
DOPGM04  TO R(0368,2,7,,'99');
DOLEY04  TO R(0370,2,7,,'99');
DOLEM04  TO R(0372,2,7,,'99');
REGRS04  TO R(0374,1,7,,'9');
YADTY04  TO R(0375,2,7,,'99');
TIG04    TO R(0377,2,7,,'99');
VRBM04   TO R(0379,2,7,,'99');
PROPY04  TO R(0381,2,7,,'99');
SCGRP04  TO R(0383,2,7,,'99');
REST04    TO R(0385,16,6);
ETSY05   TO R(0401,2,7,,'99');
ETSM05   TO R(0403,2,7,,'99');
HYEC05   TO R(0405,2,7,,'99');
AFQT05   TO R(0407,2,7,,'99');
PG05     TO R(0409,2,7,,'99');
DOBY05   TO R(0411,2,7,,'99');
DOBM05   TO R(0413,2,7,,'99');
DOBD05   TO R(0415,2,7,,'99');
MS05     TO R(0417,2,7,,'99');
DEPS05   TO R(0419,2,7,,'99');
SEX05    TO R(0421,1,7,,'9');
AFQTG05  TO R(0422,2,7,,'99');
EAGE05   TO R(0424,2,7,,'99');
PAGE05   TO R(0426,2,7,,'99');
RTNEC05  TO R(0428,7,6);
BASDY05  TO R(0435,2,7,,'99');
BASDM05  TO R(0437,2,7,,'99');
BASDD05  TO R(0439,2,7,,'99');
DOPGY05  TO R(0441,2,7,,'99');
DOPGM05  TO R(0443,2,7,,'99');
DOLEY05  TO R(0445,2,7,,'99');
DOLEM05  TO R(0447,2,7,,'99');
REGRS05  TO R(0449,1,7,,'9');
YADTY05  TO R(0450,2,7,,'99');
TIG05    TO R(0452,2,7,,'99');
VRBM05   TO R(0454,2,7,,'99');
PROPY05  TO R(0456,2,7,,'99');
SCGRP05  TO R(0458,2,7,,'99');
REST05    TO R(0460,16,6);
ETSY06   TO R(0476,2,7,,'99');
ETSM06   TO R(0478,2,7,,'99');
HYEC06   TO R(0480,2,7,,'99');
AFQT06   TO R(0482,2,7,,'99');
PG06     TO R(0484,2,7,,'99');
DOBY06   TO R(0486,2,7,,'99');
DOBM06   TO R(0488,2,7,,'99');
DOBD06   TO R(0490,2,7,,'99');
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EXPECODE CNA

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MS06     TO R(0492,2,7,,'99');
DEPS06   TO R(0494,2,7,,'99');
SEX06    TO R(0496,1,7,,'9');
AFQTG06  TO R(0497,2,7,,'99');
EAGE06   TO R(0499,2,7,,'99');
PAGE06   TO R(0501,2,7,,'99');
RTNEC06  TO R(0503,7,6);
BASDY06  TO R(0510,2,7,,'99');
BASDM06  TO R(0512,2,7,,'99');
BASDD06  TO R(0514,2,7,,'99');
DOPGY06  TO R(0516,2,7,,'99');
DOPGM06  TO R(0518,2,7,,'99');
DOLEY06  TO R(0520,2,7,,'99');
DOLEM06  TO R(0522,2,7,,'99');
REGRS06  TO R(0524,1,7,,'9');
YADTY06  TO R(0525,2,7,,'99');
TIG06    TO R(0527,2,7,,'99');
VRBM06   TO R(0529,2,7,,'99');
PROPY06  TO R(0531,2,7,,'99');
SCGRP06  TO R(0533,2,7,,'99');
REST06    TO R(0535,16,6);
ETSY07   TO R(0551,2,7,,'99');
ETSM07   TO R(0553,2,7,,'99');
HYEC07   TO R(0555,2,7,,'99');
AFQT07   TO R(0557,2,7,,'99');
PG07     TO R(0559,2,7,,'99');
DOBY07   TO R(0561,2,7,,'99');
DOBM07   TO R(0563,2,7,,'99');
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SCGRP08  TO R(0683,2,7,,'99');
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SCGRP21  TO R(1658,2,7,,'99');
REST21    TO R(1660,16,6);
ETSY22   TO R(1676,2,7,,'99');
ETSM22   TO R(1678,2,7,,'99');
HYEC22   TO R(1680,2,7,,'99');
AFQT22   TO R(1682,2,7,,'99');
PG22     TO R(1684,2,7,,'99');
DOBY22   TO R(1686,2,7,,'99');
DOBM22   TO R(1688,2,7,,'99');
DOBD22   TO R(1690,2,7,,'99');
MS22     TO R(1692,2,7,,'99');
DEPS22   TO R(1694,2,7,,'99');
SEX22    TO R(1696,1,7,,'9');
AFQTG22  TO R(1697,2,7,,'99');
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```
EAGE22   TO R(1699,2,7,,'99');
PAGE22   TO R(1701,2,7,,'99');
RTNEC22  TO R(1703,7,6);
BASDY22  TO R(1711,2,7,,'99');
BASDM22  TO R(1712,2,7,,'99');
BASDD22  TO R(1714,2,7,,'99');
DOPGY22  TO R(1716,2,7,,'99');
DOPGM22  TO R(1718,2,7,,'99');
DOLEY22  TO R(1720,2,7,,'99');
DOLEM22  TO R(1722,2,7,,'99');
REGRS22  TO R(1724,1,7,,'9');
YADTY22  TO R(1725,2,7,,'99');
TIG22    TO R(1727,2,7,,'99');
VRBM22   TO R(1729,2,7,,'99');
PROPY22  TO R(1731,2,7,,'99');
SCGRP22  TO R(1733,2,7,,'99');
REST22    TO R(1735,16,6);
ETSY23   TO R(1751,2,7,,'99');
ETSM23   TO R(1753,2,7,,'99');
HYEC23   TO R(1755,2,7,,'99');
AFQT23   TO R(1757,2,7,,'99');
PG23     TO R(1759,2,7,,'99');
DOBY23   TO R(1761,2,7,,'99');
DOBM23   TO R(1763,2,7,,'99');
DOBD23   TO R(1765,2,7,,'99');
MS23     TO R(1767,2,7,,'99');
DEPS23   TO R(1769,2,7,,'99');
SEX23    TO R(1771,1,7,,'9');
AFQTG23  TO R(1772,2,7,,'99');
EAGE23   TO R(1774,2,7,,'99');
PAGE23   TO R(1776,2,7,,'99');
RTNEC23  TO R(1778,7,6);
BASDY23  TO R(1785,2,7,,'99');
BASDM23  TO R(1787,2,7,,'99');
BASDD23  TO R(1789,2,7,,'99');
DOPGY23  TO R(1791,2,7,,'99');
DOPGM23  TO R(1793,2,7,,'99');
DOLEY23  TO R(1795,2,7,,'99');
DOLEM23  TO R(1797,2,7,,'99');
REGRS23  TO R(1799,1,7,,'9');
YADTY23  TO R(1800,2,7,,'99');
TIG23    TO R(1802,2,7,,'99');
VRBM23   TO R(1804,2,7,,'99');
PROPY23  TO R(1806,2,7,,'99');
SCGRP23  TO R(1808,2,7,,'99');
REST23    TO R(1810,16,6);
ETSY24   TO R(1826,2,7,,'99');
ETSM24   TO R(1828,2,7,,'99');
HYEC24   TO R(1830,2,7,,'99');
AFQT24   TO R(1832,2,7,,'99');
PG24     TO R(1834,2,7,,'99');
DOBY24   TO R(1836,2,7,,'99');
DOBM24   TO R(1838,2,7,,'99');
DOBD24   TO R(1840,2,7,,'99');
MS24     TO R(1842,2,7,,'99');
DEPS24   TO R(1844,2,7,,'99');
SEX24    TO R(1846,1,7,,'9');
AFQTG24  TO R(1847,2,7,,'99');
EAGE24   TO R(1849,2,7,,'99');
PAGE24   TO R(1851,2,7,,'99');
RTNEC24  TO R(1953,7,6);
BASDY24  TO R(1860,2,7,,'99');
BASDM24  TO R(1862,2,7,,'99');
BASDD24  TO R(1864,2,7,,'99');
DOPGY24  TO R(1866,2,7,,'99');
DOPGM24  TO R(1868,2,7,,'99');
DOLEY24  TO R(1870,2,7,,'99');
DOLEM24  TO R(1872,2,7,,'99');
REGRS24  TO R(1874,1,7,,'9');
YADTY24  TO R(1875,2,7,,'99');
TIG24    TO R(1877,2,7,,'99');
VRBM24   TO R(1879,2,7,,'99');
PROPY24  TO R(1881,2,7,,'99');
SCGRP24  TO R(1883,2,7,,'99');
REST24    TO R(1895,16,6);
ETSY25   TO R(1901,2,7,,'99');
ETSM25   TO R(1903,2,7,,'99');
HYEC25   TO R(1905,2,7,,'99');
```

EXECODE CNA

```
AFQT25   TO R(1907,2,7,,'99');
PG25     TO R(1909,2,7,,'99');
DOBY25   TO R(1911,2,7,,'99');
DOBM25   TO R(1913,2,7,,'99');
DOBD25   TO R(1915,2,7,,'99');
MS25     TO R(1917,2,7,,'99');
DEPS25   TO R(1919,2,7,,'99');
SEX25    TO R(1921,1,7,,'9');
AFQTG25  TO R(1922,2,7,,'99');
EAGE25   TO R(1924,2,7,,'99');
PAGE25   TO R(1926,2,7,,'99');
RTNEC25  TO R(1928,7,6);
BASDY25  TO R(1935,2,7,,'99');
BASDM25  TO R(1937,2,7,,'99');
BASDD25  TO R(1939,2,7,,'99');
DOPGY25  TO R(1941,2,7,,'99');
DOPGM25  TO R(1943,2,7,,'99');
DOLEY25  TO R(1945,2,7,,'99');
DOLEM25  TO R(1947,2,7,,'99');
REGRS25  TO R(1949,1,7,,'9');
YADTY25  TO R(1950,2,7,,'99');
TIG25    TO R(1952,2,7,,'99');
VRBM25   TO R(1954,2,7,,'99');
PROPY25  TO R(1956,2,7,,'99');
SCGRP25  TO R(1958,2,7,,'99');
REST25    TO R(1960,16,6);
ETSY26   TO R(1976,2,7,,'99');
ETSM26   TO R(1978,2,7,,'99');
HYEC26   TO R(1980,2,7,,'99');
AFQT26   TO R(1982,2,7,,'99');
PG26     TO R(1984,2,7,,'99');
DOBY26   TO R(1986,2,7,,'99');
DOBM26   TO R(1988,2,7,,'99');
DOBD26   TO R(1990,2,7,,'99');
MS26     TO R(1992,2,7,,'99');
DEPS26   TO R(1994,2,7,,'99');
SEX26    TO R(1996,1,7,,'9');
AFQTG26  TO R(1997,2,7,,'99');
EAGE26   TO R(1999,2,7,,'99');
PAGE26   TO R(2001,2,7,,'99');
RTNEC26  TO R(2003,7,6);
BASDY26  TO R(2010,2,7,,'99');
BASDM26  TO R(2012,2,7,,'99');
BASDD26  TO R(2014,2,7,,'99');
DOPGY26  TO R(2016,2,7,,'99');
DOPGM26  TO R(2018,2,7,,'99');
DOLEY26  TO R(2020,2,7,,'99');
DOLEM26  TO R(2022,2,7,,'99');
REGRS26  TO R(2024,1,7,,'9');
YADTY26  TO R(2025,2,7,,'99');
TIG26    TO R(2027,2,7,,'99');
VRBM26   TO R(2029,2,7,,'99');
PROPY26  TO R(2031,2,7,,'99');
SCGRP26  TO R(2033,2,7,,'99');
REST26    TO R(2035,16,6);
ETSY27   TO R(2051,2,7,,'99');
ETSM27   TO R(2053,2,7,,'99');
HYEC27   TO R(2055,2,7,,'99');
AFQT27   TO R(2057,2,7,,'99');
PG27     TO R(2059,2,7,,'99');
DOBY27   TO R(2061,2,7,,'99');
DOBM27   TO R(2063,2,7,,'99');
DOBD27   TO R(2065,2,7,,'99');
MS27     TO R(2067,2,7,,'99');
DEPS27   TO R(2069,2,7,,'99');
SEX27    TO R(2071,1,7,,'9');
AFQTG27  TO R(2072,2,7,,'99');
EAGE27   TO R(2074,2,7,,'99');
PAGE27   TO R(2076,2,7,,'99');
RTNEC27  TO R(2078,7,6);
BASDY27  TO R(2085,2,7,,'99');
BASDM27  TO R(2087,2,7,,'99');
BASDD27  TO R(2089,2,7,,'99');
DOPGY27  TO R(2091,2,7,,'99');
DOPGM27  TO R(2093,2,7,,'99');
DOLEY27  TO R(2095,2,7,,'99');
DOLEM27  TO R(2097,2,7,,'99');
REGRS27  TO R(2099,1,7,,'9');
```

EXECODE CNA

```
YADTY27 TO R(2100,2,7,,'99');
TTG27   TO R(2102,2,7,,'99');
VRBM27  TO R(2104,2,7,,'99');
PROPY27 TO R(2106,2,7,,'99');
SCGRP27 TO R(2108,2,7,,'99');
REST27  TO R(2110,16,6);
//PLI.SYSPRINT DD DUMMY
//GO.FILE1 DD DSN=DD963.EN.P7605.P8303,UNIT=3400-5,DISP=OLD,
// VOL=SER=K05256
//GO.FILE2 DD DSN=DD963.P7609.P8303,UNIT=3400-5,DISP=(NEW,KEEP),
// DCB=(LRECL=2125,BLKSIZE=21250,RECFM=FB),VOL=SER=K07620
```

```
//MWS#SHPS   JOB (3404,3F7333),CUNNINGHAM,CLASS=G
//*FORMAT PR,DDNAME=,DEST=RMT01
//*MAIN PROC=20,RINGCHK=NO,ORG=RMT01,LINES=(46)
// EXEC PLIXCLG,PARM.PLI='A(F),LC(80),MAR(2,72),MI('**|**'),NEST,X(F)',
//  PARM.LKED='NOLIST,NOMAP,NOXREF',REGION=1500K
//* EXEC PLIXC
//*PLI.SYSPRINT DD DUMMY
//PLI.SYSIN DD *
 SHIPS: PROC OPTIONS (MAIN) REORDER;
    /*****************************************************************
      TAB FOR BDM-COUNTS BY UIC,DATE,RATING,GRADE. OUTPUT TAPE.      *
    *****************************************************************/

 DCL IN1  RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (1400) BLKSIZE (14000) BUFFERS(2)),
     OUT  RECORD SEQUENTIAL BUFFERED OUTPUT ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (54) BLKSIZE (13014) BUFFERS(2)),
     SYSPRINT FILE OUTPUT PRINT;

                /*****************************
                *    I N P U T   F O R M A T S   *
                *****************************/
 DCL (I1,I2) POINTER;
 DCL 1 IN_REC BASED (I1),
     2 F1          CHAR(50), /*  1 -50  */
     2 Y(27),
       3 F2        CHAR(04), /* 51 -54  */
       3 PG_IN     CHAR(01), /* 55      */
       3 F3        CHAR(09), /* 56 - 64 */
       3 RT_IN     CHAR(03), /* 65 - 67 */
       3 F4        CHAR(17), /* 68 - 84 */
       3 UIC_IN    CHAR(03), /* 85 - 87 */
       3 F5        CHAR(13); /* 88 -100 */

 DCL A(  17,   27,    73,   10 ) FIXED BIN(31);
     /* UIC, DATE, RATING, PAYGRADE */

 DCL(SUM,SUBSTR) BUILTIN;
 DCL (IN_CTR,OUT_CTR) FIXED BIN(31) INIT(0B);
 DCL  BPG FIXED BIN(15) INIT(0B),
      CPG CHAR(1) DEF BPG POS(2);

 DCL (I,UIC,PG,RT,YR) FIXED BIN(15) INIT(0B);

 DCL DATE (27) FIXED BIN(31) INIT(7609,7612,
     7703,7706,7709,7712,7803,7806,7809,7812,7903,7906,7909,7912,
     8003,8106,8009,8012,8103,8106,8109,8112,8203,8206,8209,8212,
     8303);
 DCL UIC_A(17) CHAR(03)       INIT('574','575','576','586',
                                   '588','589','590','591',
     '598','599','600','601','602','603','604','611');

 DCL RATING_A(73) CHAR(3) INIT('AA ',
                               'ABE',
                               'ABH',
                               'AD ',
                               'AE ',
                               'AK ',
                               'AN ',
                               'AR ',
                               'ASH',
                               'BM ',
                               'BT ',
                               'BU ',
                               'CM ',
                               'CR ',
                               'CTM',
                               'CTO',
                               'CTR',
                               'CTT',
                               'DK ',
                               'DM ',
                               'DP ',
                               'DS ',
                               'EM ',
                               'EN ',
                               'ET ',
                               'ETN',
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```
                                        'ETR ',
                                        'EW  ',
                                        'FA  ',
                                        'FN  ',
                                        'FR  ',
                                        'FT  ',
                                        'FTG ',
                                        'FTM ',
                                        'GM  ',
                                        'GMG ',
                                        'GMM ',
                                        'GMT ',
                                        'GS  ',
                                        'GSE ',
                                        'GSM ',
                                        'HA  ',
                                        'HM  ',
                                        'HN  ',
                                        'HR  ',
                                        'HT  ',
                                        'IC  ',
                                        'JO  ',
                                        'MA  ',
                                        'MM  ',
                                        'MR  ',
                                        'MS  ',
                                        'MT  ',
                                        'NC  ',
                                        'OS  ',
                                        'OT  ',
                                        'PC  ',
                                        'PN  ',
                                        'QM  ',
                                        'RM  ',
                                        'RP  ',
                                        'SA  ',
                                        'SH  ',
                                        'SK  ',
                                        'SM  ',
                                        'SN  ',
                                        'SR  ',
                                        'STG ',
                                        'STS ',
                                        'TM  ',
                                        'UT  ',
                                        'YN  ',
                                        'TOT ');

DCL L(6) CHAR(33) INIT('*******************************',
                       '*  DD963 CLASS SHIPS PERSONNEL *',
                       '*          BY                 *',
                       '*  UIC, DATE, RATING & PAYGRADE *',
                       '*******************************');

DCL OUT_STR CHAR(54);
DCL BIN_FIELD FIXED BIN(15) INIT(08),
    CBIN CHAR(2) DEF BIN_FIELD;

ON ENDFILE(IN1) BEGIN; GO TO SUMMARY; END;
ON ENDPAGE CALL HDG;
OPEN FILE(IN1), FILE(SYSPRINT) LINESIZE(132) PAGESIZE(80);

 /*********************   BEGIN INPUT PROCESSING  ************************/

A=0;

READ_NEXT_RECORD:

 READ FILE(IN1) SET(I1); IN_CTR = IN_CTR + 1;

 DO I = 1 TO 27;
    DO UIC = 1 TO 17;                        /*   CHECK UIC    */
       IF SUBSTR(Y(I).UIC_IN,1,2) = CBIN THEN GO TO NEXT1;
       IF Y(I).UIC_IN = UIC_A(UIC) THEN LEAVE;
    END;
       IF UIC > 17 THEN GO TO NEXT1;
                                         /*  CHECK PAYGRADE  */
```

```
      CPG=Y(I).PG_IN;
      IF BPG = 0 THEN LEAVE;
   DO PG = 1 TO 9;
      IF PG = BPG THEN LEAVE;
   END;
      IF PG > 9 THEN GO TO NEXT1;
                                          /*  CHECK RATINGS   */
      IF SUBSTR(Y(I).RT_IN,1,2) = CBIN THEN GO TO NEXT1;
   DO RT = 1 TO 72;
      IF Y(I).RT_IN = RATING_A(RT) THEN LEAVE;
   END;
      IF RT > 72 THEN GO TO NEXT1;

   A(UIC,I,RT,PG) = A(UIC,I,RT,PG) + 1;
     /*     PUT DATA(A(UIC,I,RT,PG));IF IN_CTR > 25 THEN GO TO
           SUMMARY;                  */
NEXT1:
   END;
GO TO READ_NEXT_RECORD;
/*****************     SUMMARY    ****************************/

SUMMARY:
  DO UIC = 1 TO 17;
     DO YR = 1 TO 27;
        DO RT = 1 TO 72;
        A(UIC,YR,RT,10) = A(UIC,YR,RT,10) + SUM(A(UIC,YR,RT,*));
        END;
     END;
  END;

  DO UIC = 1 TO 17;
     DO YR = 1 TO 27;
        DO PG = 1 TO 10;
        A(UIC,YR,73,PG) = A(UIC,YR,73,PG) + SUM(A(UIC,YR,*,PG));
        END;
     END;
  END;

/***********************     PRINT OUTPUT    **************************/
  DO UIC = 1 TO 17;
     DO YR = 1 TO 27;
        DO RT = 1 TO 73;
           IF RT=1 & A(UIC,YR,73,10) > 0 THEN
              CALL HDG;
           IF A(UIC,YR,RT,10) < 1 THEN GO TO NEXT2;
IF RT = 73 THEN PUT EDIT ('TOTAL',(A(UIC,YR,RT,I) DO I= 1 TO 10))
                 (SKIP(1),COL(3),A,COL(11),10(X(5),P'Z,ZZ9'));
   ELSE          PUT EDIT (RATING_A(RT),(A(UIC,YR,RT,I) DO I= 1 TO 10))
                 (SKIP(1),COL(3),A,COL(11),10(X(5),P'Z,ZZ9'));
PUT STRING(OUT_STR) EDIT( UIC_A(UIC), DATE(YR),
           RATING_A(RT),A(UIC,YR,RT,1),
           A(UIC,YR,RT,2),
           A(UIC,YR,RT,3),
           A(UIC,YR,RT,4),
           A(UIC,YR,RT,5),
           A(UIC,YR,RT,6),
           A(UIC,YR,RT,7),
           A(UIC,YR,RT,8),
           A(UIC,YR,RT,9),
           A(UIC,YR,RT,10))
          (A,P'9999',A,10(P'9999'));/* 3+4+3+40=50  */
    WRITE FILE(OUT) FROM(OUT_STR);
                    OUT_CTR = OUT_CTR + 1;
NEXT2:
      END;
   END;
END;

DCL PG_CTR FIXED BIN(31)INIT(0);
HDG: PROC;
     PG_CTR = PG_CTR + 1;
     PUT PAGE;PUT EDIT('PAGE- ',PG_CTR,'DMDC-83F73333')
                 (COL(98),A,P'ZZ9');
     PUT EDIT((L(I) DO I=1 TO 6))(SKIP(1),COL(40),A);
      PUT EDIT('SHIP - N20',UIC_A(UIC))
           (SKIP(2),COL(49),A,P'999')
           ('DATE - ',DATE(YR))(SKIP(2),COL(50),A,P'9999')
```

```
            ('RATING          E1          E2          E3          E4
E5          E6          E7          E8          E9          TOTAL')
            (SKIP(2),COL(3),A);
            PUT SKIP;
END; /* HEADING PROC  */
EOJ:
   PUT PAGE;
   PUT EDIT ('TOTAL RECORDS IN  = ',IN_CTR,
             'TOTAL RECORDS OUT= ',OUT_CTR)(COL(5),A,P'ZZZ,ZZ9');
END;
/*
//*GO.IN1 DD DISP=SHR,DSN=MRDC.ELCXXX.DD963.X100
//GO.IN1 DD UNIT=3400-5,DSN=DD963.P7609.P8303,VOL=SER=K06760,
// DCB=(LRECL=1400,BLKSIZE=14000,RECFM=FB)
//GO.OUT DD UNIT=3400-6,DCB=(LRECL=54,BLKSIZE=13014,RECFM=FB,DEN=3),
// DSN=BOM.SHIPS,DISP=(NEW,KEEP),VOL=SER=003487
//
//GO.OUT DD UNIT=3400-6,DCB=(LRECL=54,BLKSIZE=13014,RECFM=FB,DEN=4),
// DSN=BOM.SHIPS,DISP=(NEW,KEEP),VOL=SER=K07990
```

```
//MWS#FORZ   JOB (3420,3F7333),MING,CLASS=C
//*FORMAT PR,DDNAME=,DEST=RMT01
//*MAIN PROC=20,RINGCHK=NO,ORG=RMT01,LINES=(7)
//  EXEC PLIXCLG,PARM.PLI='A(F),LC(80),MAR(2,72),MI('**|**'),NEST,X(F)',
//   PARM.LKED='NOLIST,NOMAP,NOXREF',REGION=1500K
//*EXEC PLIXC
//PLI.SYSPRINT DD DUMMY
//PLI.SYSIN DD *
 SHIPS: PROC OPTIONS (MAIN) REORDER;
     /*****************************  ***************************************
      * TAB FOR BDM-COUNTS AND % OF ALTHORIZED, ASSIGNED & MANNED PERS.
                    BY UIC,DATE,RATING,GRADE.
     *****************************  ***************************************/

 DCL IN1  RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN2  RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN3  RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN4  RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN5  RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN6  RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN7  RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN8  RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN9  RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN10 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN11 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN12 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN13 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN14 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN15 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN16 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN17 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN18 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN19 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN20 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN21 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN22 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN23 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN24 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN25 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN26 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     IN27 RECORD SEQUENTIAL BUFFERED INPUT  ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (150) BLKSIZE (12900) BUFFERS(2)),
     OUT  RECORD SEQUENTIAL BUFFERED OUTPUT ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (022) BLKSIZE (13024) BUFFERS(2)),
     OUT2 RECORD SEQUENTIAL BUFFERED OUTPUT ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (022) BLKSIZE (13024) BUFFERS(2)),
     OUT4 RECORD SEQUENTIAL BUFFERED OUTPUT ENV (CONSECUTIVE FBS TOTAL
          RECSIZE (022) BLKSIZE (13024) BUFFERS(2)),
     SYSPRINT FILE OUTPUT PRINT;

                /*********************************
                *    I N P U T   F O R M A T S    *
```

```
            *.*********************************/
DCL (I1,I2) POINTER;
DCL 1 IN_REC BASED (I1),
        2 FILL1_1                   CHAR (33),      /* 01 - 33 */
        2 RT_IN                     CHAR (03),      /* 34 - 36 */
        2 FILL1_3                   CHAR (35),      /* 37 - 71 */
        2 UIC_IN                    CHAR (03),      /* 72 - 74 */
        2 FILL1_4                   CHAR (76);      /* 75 -150 */


DCL A(      58,   11,  2 ) FLOAT BIN(31);
    /*  RATING, UIC, N,%  */

DCL RECORD CHAR(22);
DCL(SUM,SUBSTR) BUILTIN;
DCL (IN_CTR,OUT_CTR,REC2) FIXED BIN(31) INIT(0B);

DCL (I,UIC,RT,YR) FIXED BIN(15) INIT(0B);
DCL (AUTH_CNT)(11) FIXED BIN(31) INIT(0B);

DCL DATE (27) FIXED BIN(31) INIT(7609,7612,
    7703,7706,7709,7712,7803,7806,7809,7812,7903,7906,7909,7912,
    8003,8006,8009,8012,8103,8106,8109,8112,8203,8206,8209,8212,
    8303);
DCL UIC_A(11) CHAR(03)      INIT('231','232','233','234',
    '235','236','683','684','685','686','TOT');

DCL RATING_A(58) CHAR(3) INIT('BM ',
                              'BT ',
                              'DS ',
                              'EM ',
                              'EN ',
                              'ET ',
                              'EW ',
                              'FN ',
                              'FT ',
                              'FTG',
                              'FTM',
                              'GM ',
                              'GMG',
                              'GMM',
                              'GMT',
                              'IC ',
                              'HT ',
                              'MM ',
                              'MR ',
                              'MS ',
                              'OS ',
                              'QM ',
                              'RM ',
                              'SH ',
                              'SK ',
                              'SM ',
                              'SN ',
                              'STG',
                              'TM ',
                              'OTH',
           'ETR','ETN','STS','DK ','HM ','HN ','HA ','HR ','JO ',
           'AD ','AG ','AO ','BU ','CM ','AMS','AA ','AR ','AN ',
     'MA ','NC ','PC ','PN ','YN ','FA ','FR ','SA ','SR ','TOT');

DCL AUTH_NUM(11,58) FLOAT BIN;
DCL AUTH_NUM_CNT(11,58) FIXED BIN(15) INIT(
    8,35,9,10,2,13,7,19,0,9,21,0,6,12,4,9,6,38,1,15,34,5,16,7,8,5,50,
      12,1,16,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
    8,35,9, 9,2,13,4,19,0,9,21,0,6,11,4,9,6,38,1,15,37,5,16,7,8,5,50,
      12,1,16,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
    8,35,9,10,2,13,6,19,0,9,21,0,6,12,4,9,6,38,1,15,37,5,16,7,8,5,48,
      12,1,16,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
    8,35,9,10,2,13,4,19,0,9,20,0,6,12,4,9,6,38,1,15,37,5,16,7,8,5,50,
      12,1,16,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
    8,31,9,10,2,12,6,19,0,9,18,1,6,10,4,9,6,38,1,15,37,5,16,6,8,5,55,
      12,1,16,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
    8,34,9,10,2,13,4,19,0,9,20,0,6,12,4,9,6,38,1,15,37,5,16,7,8,5,50,
      12,1,16,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
    8,35,9,10,2,13,7,18,0,9,21,0,6,13,4,9,6,38,1,15,34,5,16,7,8,5,50,
      12,1,16,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
    8,31,9,10,2,13,4,19,0,9,21,0,6,12,4,9,6,38,1,15,35,5,16,7,8,5,50,
```

```
     12,1,16,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
   8,35,9, 9,3,13,6,19,0,9,20,0,6,12,4,9,6,38,1,15,37,5,16,7,8,5,49,
     12,1,16,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
   8,35,9, 9,3,13,7,19,0,9,21,0,6,12,4,9,6,36,1,15,34,5,16,7,8,5,50,
     12,1,16,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0);
DCL L(6) CHAR(33) INIT('********************************',
                       '*      DDG37 CLASS SHIPS PERSONNEL-  *',
                       '*      AUTHORIZED, ASSIGNED, MANNED  *',
                       '*                BY                  *',
                       '*         UIC, DATE, RATING          *',
                       '********************************');
DCL NPC CHAR(103) INIT ((6)'  N    N         %       |');
DCL AM CHAR (103) INIT ((6)' ATH ASN      MAN      |');
DCL TAB FIXED BIN(15) INIT(1B);

DCL(N1,N2) FIXED BIN(15) INIT(0B);
DCL AUTHORIZED PIC'999';

/*  ON ENDFILE(IN1) BEGIN; CALL SUMMARY;GO TO EOJ; END;*/
 ON ENDFILE(IN1) BEGIN; CALL SUMMARY;TAB=2;
  CLOSE FILE(IN1); OPEN FILE(IN2); GO TO READ1;END;
ON ENDFILE(IN2) BEGIN; CALL SUMMARY;TAB=3;
  CLOSE FILE(IN2); OPEN FILE(IN3); GO TO READ1;END;
ON ENDFILE(IN3) BEGIN; CALL SUMMARY;TAB=4;
  CLOSE FILE(IN3); OPEN FILE(IN4); GO TO READ1;END;
ON ENDFILE(IN4) BEGIN; CALL SUMMARY;TAB=5;
  CLOSE FILE(IN4); OPEN FILE(IN5); GO TO READ1;END;
ON ENDFILE(IN5) BEGIN; CALL SUMMARY;TAB=6;
  CLOSE FILE(IN5); OPEN FILE(IN6); GO TO READ1;END;
ON ENDFILE(IN6) BEGIN; CALL SUMMARY;TAB=7;
  CLOSE FILE(IN6); OPEN FILE(IN7); GO TO READ1;END;
ON ENDFILE(IN7) BEGIN; CALL SUMMARY;TAB=8;
  CLOSE FILE(IN7); OPEN FILE(IN8); GO TO READ1;END;
ON ENDFILE(IN8) BEGIN; CALL SUMMARY;TAB=9;
  CLOSE FILE(IN8); OPEN FILE(IN9); GO TO READ1;END;
ON ENDFILE(IN9) BEGIN; CALL SUMMARY;TAB=10;
  CLOSE FILE(IN9); OPEN FILE(IN10); GO TO READ1;END;
ON ENDFILE(IN10) BEGIN; CALL SUMMARY;TAB=11;
  CLOSE FILE(IN10); OPEN FILE(IN11); GO TO READ1;END;
ON ENDFILE(IN11) BEGIN; CALL SUMMARY;TAB=12;
  CLOSE FILE(IN11); OPEN FILE(IN12); GO TO READ1;END;
ON ENDFILE(IN12) BEGIN; CALL SUMMARY;TAB=13;
  CLOSE FILE(IN12); OPEN FILE(IN13); GO TO READ1;END;
ON ENDFILE(IN13) BEGIN; CALL SUMMARY;TAB=14;
  CLOSE FILE(IN13); OPEN FILE(IN14); GO TO READ1;END;
ON ENDFILE(IN14) BEGIN; CALL SUMMARY;TAB=15;
  CLOSE FILE(IN14); OPEN FILE(IN15); GO TO READ1;END;
ON ENDFILE(IN15) BEGIN; CALL SUMMARY;TAB=16;
  CLOSE FILE(IN15); OPEN FILE(IN16); GO TO READ1;END;
ON ENDFILE(IN16) BEGIN; CALL SUMMARY;TAB=17;
  CLOSE FILE(IN16); OPEN FILE(IN17); GO TO READ1;END;
ON ENDFILE(IN17) BEGIN; CALL SUMMARY;TAB=18;
  CLOSE FILE(IN17); OPEN FILE(IN18); GO TO READ1;END;
ON ENDFILE(IN18) BEGIN; CALL SUMMARY;TAB=19;
  CLOSE FILE(IN18); OPEN FILE(IN19); GO TO READ1;END;
ON ENDFILE(IN19) BEGIN; CALL SUMMARY;TAB=20;
  CLOSE FILE(IN19); OPEN FILE(IN20); GO TO READ1;END;
ON ENDFILE(IN20) BEGIN; CALL SUMMARY;TAB=21;
  CLOSE FILE(IN20); OPEN FILE(IN21); GO TO READ1;END;
ON ENDFILE(IN21) BEGIN; CALL SUMMARY;TAB=22;
  CLOSE FILE(IN21); OPEN FILE(IN22); GO TO READ1;END;
ON ENDFILE(IN22) BEGIN; CALL SUMMARY;TAB=23;
  CLOSE FILE(IN22); OPEN FILE(IN23); GO TO READ1;END;
ON ENDFILE(IN23) BEGIN; CALL SUMMARY;TAB=24;
  CLOSE FILE(IN23); OPEN FILE(IN24); GO TO READ1;END;
ON ENDFILE(IN24) BEGIN; CALL SUMMARY;TAB=25;
  CLOSE FILE(IN24); OPEN FILE(IN25); GO TO READ1;END;
ON ENDFILE(IN25) BEGIN; CALL SUMMARY;TAB=26;
  CLOSE FILE(IN25); OPEN FILE(IN26); GO TO READ1;END;
ON ENDFILE(IN26) BEGIN; CALL SUMMARY;TAB=27;
  CLOSE FILE(IN26); OPEN FILE(IN27); GO TO READ1;END;
ON ENDFILE(IN27) BEGIN; CALL SUMMARY;GO TO EOJ;END;

ON ENDPAGE CALL HDG;
OPEN FILE(IN1), FILE(SYSPRINT) LINESIZE(132) PAGESIZE(80);

 /****************   BEGIN INPUT PROCESSING   **********************/
```

```
READ1:
A=0; AUTH_CNT=0; AUTH_NUM=0;
READ_NEXT_RECORD:
 SELECT (TAB);
        WHEN(1)
           DO; READ FILE(IN1) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(2)
           DO; READ FILE(IN2) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(3)
           DO; READ FILE(IN3) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(4)
           DO; READ FILE(IN4) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(5)
           DO; READ FILE(IN5) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(6)
           DO; READ FILE(IN6) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(7)
           DO; READ FILE(IN7) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(8)
           DO; READ FILE(IN8) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(9)
           DO; READ FILE(IN9) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(10)
           DO; READ FILE(IN10) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(11)
           DO; READ FILE(IN11) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(12)
           DO; READ FILE(IN12) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(13)
           DO; READ FILE(IN13) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(14)
           DO; READ FILE(IN14) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(15)
           DO; READ FILE(IN15) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(16)
           DO; READ FILE(IN16) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(17)
           DO; READ FILE(IN17) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(18)
           DO; READ FILE(IN18) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(19)
           DO; READ FILE(IN19) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(20)
           DO; READ FILE(IN20) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(21)
           DO; READ FILE(IN21) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(22)
           DO; READ FILE(IN22) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(23)
           DO; READ FILE(IN23) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(24)
           DO; READ FILE(IN24) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(25)
           DO; READ FILE(IN25) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(26)
           DO; READ FILE(IN26) SET(I1); IN_CTR = IN_CTR + 1; END;
        WHEN(27)
           DO; READ FILE(IN27) SET(I1); IN_CTR = IN_CTR + 1; END;
        OTHERWISE STOP;
 END;  /* SELECT */

   DO UIC = 1 TO 10;                          /*   CHECK UIC   */
      IF UIC_IN = UIC_A(UIC) THEN LEAVE;
   END;
      IF UIC > 10 THEN GO TO NEXT1;

   DO RT = 1 TO 57;                           /*  CHECK RATINGS   */
      IF RT_IN = RATING_A(RT) THEN LEAVE;
   END;
      IF RT > 57 THEN GO TO NEXT1;

SELECT(RT_IN);
    WHEN('ETR','ETN') DO; RT_IN='ET '; RT=6; END;
    WHEN('STS') DO; RT_IN='ST '; RT=28; END;
```

```
     WHEN('FR ','FA ') DO; RT_IN='FN '; RT=8; END;
     WHEN('SR ','SA ','AA ','KF ','AN ') DO; RT_IN='SN '; RT=27; END;
     WHEN('DK ','HM ','HN ','HF ','HA ','JO ','MA ',
          'AD ','AG ','AO ','BL ','CM ','AMS','NC ',
          'PC ','PN ','YN ') DO; RT_IN='SN '; RT=30; END;
     OTHERWISE RT_IN = RT_IN;
  END;

   A(RT,UIC,1) = A(RT,UIC,1) + 1;
NEXT1:
GO TO READ_NEXT_RECORD;
/*********************     SUMMARY    ****************************/

SUMMARY: PROC;
         DO UIC = 1 TO 10;
            DO RT = 1 TO 58;
               AUTH_NUM(11,RT) = AUTH_NUM(11,RT) + AUTH_NUM(UIC,RT);
           AUTH_NUM(UIC,RT) = AUTH_NUM_CNT(UIC,RT);
           AUTH_NUM(11,RT) = AUTH_NUM(11,RT) + AUTH_NUM_CNT(UIC,RT);
           AUTH_CNT(UIC) = AUTH_CNT(UIC) + AUTH_NUM_CNT(UIC,RT);
           AUTH_CNT(11) = AUTH_CNT(11) + AUTH_NUM_CNT(UIC,RT);
         END;
         END;

                              /*   TOTAL RATING COLUMN  */
     DO UIC = 1 TO 11;
        A(58,UIC,1) = A(58,UIC,1) + SUM(A(*,UIC,1));
     END;
                              /*   TOTAL SHIP      */
                             /* TOTAL SHIP UIC  */
                              /*   TOTAL UIC COLUMN   */
     DO RT = 1 TO 58;
        A(RT,11,1) = A(RT,11,1) + SUM(A(RT,*,1));
     END;

                              /*   COMPUTE %'S   */
     DO RT = 1 TO 58;
        DO UIC = 1 TO 11;
           IF AUTH_NUM(UIC,RT) > 0 THEN
           A(RT,UIC,2)=(A(RT,UIC,1)/
                              AUTH_NUM(UIC,RT))*100 +.05;
     END; END;

     DO UIC = 1 TO 11;
       IF AUTH_CNT(UIC) > 0 THEN
       A(58,UIC,2)=(A(58,UIC,1)/
                              AUTH_CNT(UIC))*100+.05;
     END;

/*********************     PRINT OUTPUT    ***************************/

 N1 = 1; N2 = 6;
CALL HDG;
CALL PRINT_PROC;

 N1= 7; N2=11;
CALL HDG;
CALL PRINT_PROC;
/*CALL PLOT_OP; */
END;  /* SUMMARY PROC */
 /************************   END OF FILE PROCESSING  ***************/

DCL PG_CTR FIXED BIN(31)INIT(0);
HDG: PROC;
     PG_CTR = PG_CTR + 1;
     PUT PAGE;PUT EDIT('PAGE- ',PG_CTR,'DMDC-83F73333')
                          (COL(98),A,P'ZZ9');
     PUT EDIT((L(I) DO I=1 TO 6))(SKIP(1),COL(49),A);
     PUT EDIT('DATE - ',DATE(1AB))(SKIP(2),COL(61),A,P'9999');
  CALL HDG2;
END; /* HEADING PROC  */

HDG2: PROC;
DCL DASH CHAR(128) INIT((128)'-');
FMT1: FORMAT(SKIP(1),COL(2),A);
     PUT EDIT(DASH)(R(FMT1)); PUT SKIP;
     IF N1=1 THEN DO;
     PUT EDIT('DDG37          RATING          UIC-52',UIC_A(N1),
```

```
                UIC_A(N1+1),UIC_A(N1+2),UIC_A(N1+3),UIC_A(N1+4),
                UIC_A(N1+5))
              (SKIP(1),COL(2),A,A,5(X(14),A))
              (DASH)(SKIP(1),COL(26),A(104))
              ('|',NPC)(SKIP(1),COL(26),A,A)
              ('|',AM)(COL(26),A,A)
              (DASH)(SKIP(0),COL(2),A);PUT SKIP;
            END;
      ELSE  DO; PUT EDIT('DDG37          RATING          UIC-52',UIC_A(N1),
              UIC_A(N1+1),UIC_A(N1+2),UIC_A(N1+3),UIC_A(N1+4))
              (SKIP(1),COL(2),A,A,4(X(14),A))
              (DASH)(SKIP(1),COL(26),A(104))
              ('|',NPC,'     TOT    AVG% |')
              (SKIP(1),COL(26),A,A(69),A)
              ('|',AM)(COL(26),A,A(86))
              (DASH)(SKIP(0),COL(2),A);PUT SKIP;
            END;
END;  /* HDG2  PROC */

PRINT_PROC: PROC;
FMT2:FORMAT(SKIP(1),COL(16),A,COL(25),6(X(2),P'ZZZ9',P'ZZZ9',
   X(2),P'ZZ9V.9'));
FMT3:FORMAT(SKIP(1),COL(16),A,COL(27),
                    P'ZZZ9',P'ZZZ9', X(2),P'ZZ9V.9',
              5(X(2),P'ZZZ9',P'ZZZ9', X(2),P'ZZ9V.9'));

        DO RT= 1 TO 30,58;
        IF RT < 58 THEN DO;
 PUT EDIT  (RATING_A(RT),(AUTH_NUM(UIC,RT),
            A(RT,UIC,1),A(RT,UIC,2) DO UIC=N1 TO N2))
             (R(FMT2));PUT SKIP;
             CALL CALL1;
           END;

        ELSE DO;
           PUT EDIT(RATING_A(RT),(AUTH_CNT(UIC),
             A(RT,UIC,1),A(RT,UIC,2) DO UIC=N1 TO N2))
             (R(FMT2)); PUT SKIP;
           CALL CALL2;
        END;
        END;
END;

CALL1: PROC;
  AUTHORIZED = AUTH_NUM(UIC,RT); CALL WRITE1;
END;

CALL2: PROC;
  AUTHORIZED = AUTH_CNT(UIC); CALL WRITE1;
END;

WRITE1: PROC;
DCL UIC FIXED BIN(15) INIT(08);
DO UIC = N1 TO N2;
IF UIC = 11 THEN GO TO END1;
  PUT STRING(RECORD) EDIT(UIC_A(UIC))(A(3),X(1))
                     (DATE(TAB))(F'9999')
                       (RATING_A(RT))(A(3))
                       (AUTHORIZED)(P'999')
                       (A(RT,UIC,1))(P'9999')
                       (A(RT,UIC,2))(P'999V9');
WRITE FILE(OUT) FROM (RECORD);
WRITE FILE(OUT2) FROM (RECORD);
OUT_CTR = OUT_CTR + 1;
END1:
 END;

END; /* WRITE1 */

EOJ:
  PUT PAGE;
  PUT EDIT ('TOTAL RECORDS IN = ',IN_CTR,
       'TOTAL SMD RECORDS OUT = ',REC2,
       'TOTAL RECORDS OUT= ',OUT_CTR)(COL(5),A,P'ZZZ,ZZ9');
END;
/*
//*GO.SYSPRINT DD DUMMY
//GO.IN1 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7609
```

BDM SHIPS37

```
//GO.IN2 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7612
//GO.IN3 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7703
//GO.IN4 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7706
//GO.IN5 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7709
//GO.IN6 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7712
//GO.IN7 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7803
//GO.IN8 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7806
//GO.IN9 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7809
//GO.IN10 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7812
//GO.IN11 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7903
//GO.IN12 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7906
//GO.IN13 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7909
//GO.IN14 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P7912
//GO.IN15 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P8003
//GO.IN16 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P8006
//GO.IN17 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P8009
//GO.IN18 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P8012
//GO.IN19 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P8103
//GO.IN20 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P8106
//GO.IN21 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P8109
//GO.IN22 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P8112
//GO.IN23 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P8203
//GO.IN24 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P8206
//GO.IN25 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P8209
//GO.IN26 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P8212
//GO.IN27 DD DISP=SHR,DSN=MRDC.WHKXXX.DDG37.P8303
//GO.OUT DD DUMMY,DCB=(LRECL=22,BLKSIZE=13024,RECFM=FB,DEN=3)
//*GO.OUT DD UNIT=3400-6,DCB=(LRECL=22,BLKSIZE=13024,RECFM=FB,DEN=3),
//* DSN=BDM.SHIP14,DISP=(NEW,KEEP),VOL=SER=004641
//GO.OUT2 DD DUMMY,DCB=(LRECL=22,BLKSIZE=13024,RECFM=FB)
//*GO.OUT2 DD DISP=SHR,
//* DSN=MRDC.BLCXXX.BDM.SHIP23
//*GO.OUT3 DD DUMMY,DCB=(LRECL=176,BLKSIZE=13024,RECFM=FB)
//*GO.OUT3 DD DISP=SHR,
//* DSN=MRDC.BLCXXX.SMD23
//GO.OUT4 DD DISP=SHR,DSN=MRDC.BLCXXX.SHIPS4.TEMP
//*GO.OUT4 DD UNIT=3330V,DCB=(LRECL=22,BLKSIZE=13420,RECFM=FB),
//* DSN=MRDC.BLCXXX.SHIPS4.TEMP,DISP=(NEW,CATLG,DELETE),
//* MSVGP=DMDC40,SPACE=(CYL,(5,1),RLSE)
//
```